

A COMPLETE
EPHEMERIS
For the Year of Christ

1682.

Containing all the Heliocentrical and Geocentrical Places and Aspects of the Planets, Lunations, Eclipses and Quarterly Ingresses, most Exactly Calculated.

WITH
Astrological Observations thereon.

Referred to the Zenith of the Famous City of London; but Generally useful to England, Scotland, Ireland, &c.

The only Exact Ephemeris Extant for this Year.

To which is Added,

A most Easy and Perspicuous Correction of the Calendar, according to the Middle Motions of the Sun and Moon forever.

ALSO

A Demonstration of the True and Natural Causes of the Flux and Reflux of the Seas.

By THOMAS STREETE, the Author of
Astronomia Carolina.

LONDON,

Printed by H. H. for the Company of Stationers 1682.

A COMPLETE

Viro Illustrissimo

EDOARDO DERING

Equiti Aurato,

Mercatori Regio,

Urania & Musus Mitioribus

deditissimo :

Lucubratiunculas

Has Astronomicas

in

Annum

MDCLXXXII

D. D. D.

Thomas Streete.

for the Company of

Printed by

A Table for the Moons Southing, and High-Water at London-Bridge.

| | | Deco. H. W. | |
|--------------------|---|-------------|--------|
| | | ho. m. | ho. m. |
| At Change or Full. | | 0 0 | 3 0 |
| Days after. | 1 | 0 49 | 3 45 |
| | 2 | 1 38 | 4 23 |
| | 3 | 2 26 | 4 54 |
| | 4 | 3 15 | 5 24 |
| | 5 | 4 4 | 5 53 |
| | 6 | 4 53 | 6 30 |
| | 7 | 5 41 | 7 12 |
| At the Quarters. | | 6 0 | 7 30 |
| Days after. | 1 | 6 49 | 8 23 |
| | 2 | 7 38 | 9 23 |
| | 3 | 8 26 | 10 28 |
| | 4 | 9 15 | 11 36 |
| | 5 | 10 4 | 0 43 |
| | 6 | 10 53 | 1 45 |
| | 7 | 11 41 | 2 40 |

This Table may serve indifferently well with any Almanack for ever; and the Southing being given, the High-Water is adjusted to it.

But in the last Column of the first page of our larger or *Geocentrical Ephemeris*, you have the exact Hour and Minute of the *Moon's* Southing, for every day in each Month this Year; and also, in a Table towards the latter end hereof, a most true account of the time of High-Water at *London-Bridge*.

In our said larger *Ephemeris*, the daily places of the *Sun*, *Moon* and *Planets*, are all expressed in Degrees and Tenth-parts.

And our Lunar Aspects are placed all in due Order in the last Column of the second page: those before a full point, are *forenoon*; those after a full point, are *afternoon*.

| | | | | | | | | | |
|--------------------------|---|----|----|----|----|----|----|----|----|
| Tenth parts of a Degree. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Are equal to Minutes. | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 |

[illegible]

[illegible]

January hath xxxi. days.

| Lunations. | Day. | Ho. | Mi. | M. | O. | Af. | Day. |
|------------------|------|-----|-----|-----|----|-----|------|
| ☾ First Quarter. | 6 | 7 | 50 | AR. | ☾ | 29 | 17 |
| ☉ Full Moon. | 13 | 0 | 26 | AR. | ☉ | 10 | 11 |
| ☾ Last Quarter. | 20 | 10 | 54 | Mo. | ☾ | 25 | 16 |
| ● New Moon. | 28 | 3 | 32 | AR. | ☾ | 16 | 21 |

| Days. | Remarkable Days. &c. | ☉ vs. | ☾ vs. | Lat. | ☉ | ☾ | ☉ | ☾ |
|-------|----------------------|-------|-------|------|---|----|---|---|
| 1 | Circumcision. | 21 | 8 | 26 | 6 | B. | 1 | 1 |
| 2 | Day 8 hours. | 22 | 8 | 22 | 7 | 0 | 0 | 2 |
| 3 | | 23 | 8 | 14 | 9 | A. | 1 | 1 |
| 4 | | 24 | 9 | 27 | 3 | 2 | 1 | 7 |
| 5 | | 25 | 9 | 19 | 9 | 3 | 1 | 7 |
| 6 | Epiphany. | 26 | 9 | 22 | 8 | 4 | 0 | 7 |
| 7 | | 27 | 9 | 06 | 1 | 4 | 6 | 7 |
| 8 | After Epi. | 28 | 9 | 19 | 9 | 5 | 0 | 7 |
| 9 | | 29 | 9 | 13 | 0 | 5 | 2 | 7 |
| 10 | | ☾ | 0 | 18 | 5 | 5 | 0 | 7 |
| 11 | | 2 | 0 | 03 | 4 | 4 | 5 | 7 |
| 12 | ☾ Perig. | 3 | 0 | 18 | 5 | 3 | 6 | 7 |
| 13 | Hilary Bp. | 4 | 0 | 03 | 7 | 2 | 5 | 7 |
| 14 | | 5 | 0 | 18 | 8 | 1 | 3 | 7 |
| 15 | 2 After Epi. | 6 | 1 | 13 | 7 | B. | 0 | 1 |
| 16 | | 7 | 1 | 18 | 1 | 1 | 4 | 7 |
| 17 | | 8 | 1 | 22 | 2 | 2 | 5 | 7 |
| 18 | | 9 | 1 | 15 | 8 | 3 | 5 | 7 |
| 19 | | 10 | 1 | 28 | 8 | 4 | 3 | 7 |
| 20 | | 11 | 1 | 11 | 6 | 4 | 9 | 7 |
| 21 | Day 9 hours. | 12 | 1 | 24 | 0 | 5 | 2 | 7 |
| 22 | 3 After Epi. | 13 | 2 | 06 | 1 | 5 | 2 | 7 |
| 23 | Term begins. | 14 | 2 | 18 | 1 | 5 | 1 | 7 |
| 24 | | 15 | 2 | VS | 0 | 4 | 7 | 7 |
| 25 | Con. S. Paul. | 16 | 2 | 11 | 8 | 4 | 0 | 7 |
| 26 | ☾ Apog. | 17 | 2 | 23 | 6 | 3 | 2 | 7 |
| 27 | | 18 | 2 | 5 | 5 | 2 | 3 | 7 |
| 28 | ☉ Ec. in vifi. | 19 | 2 | 17 | 6 | 1 | 3 | 7 |
| 29 | 4 After Epi. | 20 | 2 | 29 | 7 | 0 | 3 | 7 |
| 30 | K. Cha. Mar. | 21 | 3 | 12 | 0 | A. | 0 | 8 |
| 31 | | 22 | 3 | 24 | 4 | 1 | 8 | 7 |

[illegible]

| Phases | Day | Hour | Min. | M. | C. | A. | Days |
|----------------|-----|------|------|------|----|----|------|
| First Quarter. | 5 | 7 | 23 | Mo. | 21 | X | 8 |
| Full Moon. | 11 | 11 | 1 | Aft. | 19 | M | 6 |
| Last Quarter. | 19 | 5 | 7 | Mo. | 1 | V | 29 |
| New Moon. | 27 | 8 | 53 | Mo. | 1 | II | 5 |

| Days | Remarkable | days &c. | o. | o. | o. | h. m. | h. m. |
|------|---------------|----------|----|----|---------|-------|-------|
| 1 | Purif. Mary. | 23 | 3 | 7 | 1 A. | 2 8 | 7 11 |
| 2 | Fast 5000 | 24 | 3 | 19 | 9 | 3 8 | 7 9 |
| 3 | Fast 5000 | 25 | 3 | 2 | 9 | 4 5 | 7 8 |
| 4 | Fast 5000 | 26 | 3 | 16 | 2 | 5 0 | 7 6 |
| 5 | 5 Aft. Epiph. | 27 | 3 | 29 | 7 | 5 3 | 7 4 |
| 6 | Fast 5000 | 28 | 3 | II | 13 6 | 5 2 | 7 2 |
| 7 | Day 10 ho. | 29 | 3 | 27 | 9 | 4 8 | 7 0 |
| 8 | Fast 5000 | 30 | 3 | 12 | 4 | 4 0 | 6 58 |
| 9 | Fast 5000 | 1 | 3 | 27 | 2 | 3 0 | 6 56 |
| 10 | Fast 5000 | 2 | 3 | 12 | 1 | 2 8 | 6 54 |
| 11 | Ec ton vil. | 3 | 4 | 27 | 0 | 0 5 | 6 52 |
| 12 | Septuages. | 4 | 4 | II | 11 8 B. | 0 8 | 6 50 |
| 13 | Term ends. | 5 | 4 | 26 | 3 | 2 0 | 6 48 |
| 14 | Valentine. | 6 | 4 | 10 | 3 | 3 1 | 6 46 |
| 15 | Fast 5000 | 7 | 4 | 24 | 0 | 4 0 | 6 44 |
| 16 | Fast 5000 | 8 | 4 | II | 7 2 | 4 7 | 6 42 |
| 17 | Fast 5000 | 9 | 4 | 20 | 0 | 5 1 | 6 40 |
| 18 | Fast 5000 | 10 | 4 | 20 | 5 | 5 3 | 6 38 |
| 19 | Fast 5000 | 11 | 4 | 14 | 6 | 5 1 | 6 36 |
| 20 | Fast 5000 | 12 | 4 | 26 | 5 | 4 7 | 6 34 |
| 21 | Fast 5000 | 13 | 4 | V | 8 3 | 4 2 | 6 32 |
| 22 | Apog. | 14 | 4 | 20 | 1 | 3 5 | 6 31 |
| 23 | Day 11. hou. | 15 | 4 | 2 | 0 | 2 5 | 6 29 |
| 24 | S. Matthias | 16 | 4 | 13 | 9 | 1 5 | 6 27 |
| 25 | Fast 5000 | 17 | 4 | 26 | 1 | 0 5 | 6 25 |
| 26 | Shrove Tund. | 18 | 4 | X | 8 4 A. | 0 5 | 6 23 |
| 27 | Fast 5000 | 19 | 4 | 20 | 9 | 0 6 | 6 21 |
| 28 | Fast 5000 | 20 | 4 | V | 3 7 | 2 6 | 6 19 |

$\Delta h \sigma$ 27 $\Delta h \sigma$ 28 $\Delta 4 \sigma$
 $\Delta h \sigma$ 27 $\Delta h \sigma$ 28 $\Delta 4 \sigma$

| | | | | | |
|---|---|---|---|---|---|
| 6 | 3 | 9 | 7 | 2 | 0 |
| 6 | 3 | 8 | 1 | 1 | 2 |
| 6 | 3 | 7 | 1 | 3 | 1 |

Latitudes of the Planets

| | | | | | |
|---|----|---|----|---|-----|
| 7 | 10 | 3 | 9 | 6 | 112 |
| 6 | 10 | 3 | 10 | 7 | 7 |
| 5 | 10 | 2 | 11 | 5 | 8 |
| 4 | 10 | 2 | 12 | 5 | 9 |
| 3 | 10 | 1 | 13 | 1 | 11 |
| 2 | 10 | 1 | 13 | 8 | 12 |
| 1 | 10 | 1 | 14 | 6 | 13 |
| 0 | 10 | 0 | 15 | 4 | 14 |
| 0 | 10 | 0 | 16 | 2 | 16 |
| 0 | 10 | 0 | 17 | 0 | 17 |
| 0 | 9 | 9 | 17 | 8 | 18 |
| 0 | 9 | 9 | 18 | 8 | 19 |
| 0 | 9 | 9 | 19 | 3 | 21 |
| 0 | 9 | 8 | 20 | 1 | 22 |
| 0 | 9 | 8 | 20 | 9 | 23 |
| 0 | 9 | 8 | 21 | 7 | 24 |
| 0 | 9 | 8 | 22 | 2 | 26 |
| 0 | 9 | 8 | 23 | 2 | 27 |
| 0 | 9 | 8 | 24 | 0 | 28 |
| 0 | 9 | 8 | 24 | 8 | 29 |
| 0 | 9 | 8 | 25 | 5 | 1 |
| 0 | 9 | 8 | 26 | 3 | 2 |
| 0 | 9 | 8 | 27 | 1 | 3 |
| 0 | 9 | 8 | 27 | 9 | 4 |
| 0 | 9 | 8 | 28 | 7 | 6 |
| 0 | 9 | 8 | 29 | 4 | 7 |
| 0 | 9 | 8 | 30 | 2 | 8 |
| 0 | 9 | 8 | 30 | 0 | 9 |

Lunar Aspects

| | | | | | | | | | | | | | | | | |
|---|---|----|---|----|---|-----|---|-------------------|---|-----------|-----------|-----------|----------|-----------|----------|-----------|
| 1 | 7 | 10 | 3 | 9 | 6 | 112 | 9 | $\Delta h \sigma$ | * | σ | \square | σ | Winds | | | |
| 1 | 6 | 10 | 3 | 10 | 7 | 7 | 4 | 14 | 6 | * | σ | * | bringing | | | |
| 1 | 5 | 10 | 2 | 11 | 5 | 8 | 6 | 16 | 3 | \square | h | \square | some | | | |
| 1 | 4 | 10 | 2 | 12 | 5 | 9 | 8 | 18 | 6 | * | 4 | * | σ | \square | σ | about |
| 1 | 4 | 10 | 1 | 13 | 1 | 11 | 1 | 19 | 7 | \square | σ | * | h | the 3, 5, | | |
| 1 | 3 | 10 | 1 | 13 | 8 | 12 | 3 | 21 | 5 | Δ | σ | \square | σ | then | | |
| 1 | 2 | 10 | 1 | 14 | 6 | 13 | 6 | 23 | 2 | Δ | σ | Δ | σ | fairer | | |
| 1 | 2 | 10 | 0 | 15 | 4 | 14 | 8 | 25 | 0 | σ | 4 | Δ | σ | clearing | | |
| 1 | 1 | 10 | 0 | 16 | 2 | 16 | 1 | 26 | 8 | σ | h | after | cloudy | | | |
| 1 | 0 | 10 | 0 | 17 | 0 | 17 | 3 | 28 | 6 | σ | σ | cold | rain | | | |
| 1 | 0 | 9 | 9 | 17 | 8 | 18 | 6 | 0 | 4 | 8 | σ | 8 | σ | and | wind | |
| 1 | 0 | 9 | 9 | 18 | 8 | 19 | 8 | 2 | 3 | * | 4 | 8 | σ | near | the | |
| 1 | 0 | 9 | 9 | 19 | 3 | 21 | 0 | 4 | 1 | * | h | moon | and | | | |
| 1 | 0 | 9 | 8 | 20 | 1 | 22 | 3 | 6 | 0 | \square | 4 | after, | | | | |
| 1 | 0 | 9 | 8 | 20 | 9 | 23 | 5 | 7 | 9 | Δ | σ | some | cold | | | |
| 1 | 0 | 9 | 8 | 21 | 7 | 24 | 8 | 9 | 8 | \square | h | Δ | σ | Δ | 4 | Δ |
| 1 | 0 | 9 | 8 | 22 | 2 | 26 | 0 | 11 | 7 | Δ | σ | showers | about | | | |
| 1 | 0 | 9 | 8 | 23 | 2 | 27 | 3 | 13 | 6 | \square | σ | Δ | h | time, | then | |
| 1 | 0 | 9 | 8 | 24 | 0 | 28 | 5 | 15 | 6 | \square | σ | \square | σ | winds | clear | |
| 1 | 0 | 9 | 8 | 24 | 8 | 29 | 8 | 17 | 5 | \square | σ | * | σ | ring | again | |
| 1 | 0 | 9 | 8 | 25 | 5 | 1 | 5 | 19 | 5 | 8 | 4 | * | σ | and | fair | |
| 1 | 0 | 9 | 8 | 26 | 3 | 2 | 3 | 21 | 5 | * | σ | about | the | | | |
| 1 | 0 | 9 | 8 | 27 | 1 | 3 | 5 | 23 | 4 | * | σ | 8 | h | 25 | day | |
| 1 | 0 | 9 | 8 | 27 | 9 | 4 | 7 | 25 | 4 | | | | | and | 26. | |
| 1 | 0 | 9 | 8 | 28 | 7 | 6 | 0 | 27 | 3 | | | | | some | | |
| 1 | 0 | 9 | 8 | 29 | 4 | 7 | 2 | 29 | 3 | σ | σ | Δ | 4 | rain | and | |
| 1 | 0 | 9 | 8 | 30 | 2 | 8 | 5 | 1 | 2 | σ | σ | the | end | lofty | wind | |
| 1 | 0 | 9 | 8 | 30 | 0 | 9 | 7 | 3 | 0 | Δ | h | σ | σ | σ | σ | \square |

| | | | | | | | | | | |
|----------------|----|----|----|-----|----|---|----|----|----|----|
| First Quarter. | 6 | 4 | 5 | Af. | II | 0 | 17 | 8 | 6 | 14 |
| Full Moon. | 13 | 10 | 4 | Mo. | X | 2 | 6 | 6 | 11 | 2 |
| Third Quarter. | 21 | 18 | 28 | Mo. | 18 | 8 | 16 | 16 | 0 | 9 |
| New Moon. | 28 | 11 | 15 | Af. | 6 | 7 | 8 | 21 | 0 | 6 |

| Days | Remarkable | Days, &c. | Lat. | Ris. | So. |
|------|----------------|-----------|------|------|-----|
| 1 | Ash Wednesday | 12 | 16 | 7 | 3A. |
| 2 | Emol | 12 | 10 | 8 | 4 |
| 3 | Emol | 13 | 13 | 2 | 5 |
| 4 | Emol | 14 | 20 | 7 | 1 |
| 5 | Sun in Lent | 15 | 10 | II | 3 |
| 6 | Emol | 16 | 24 | 2 | 1 |
| 7 | Emol | 17 | 28 | 9 | 1 |
| 8 | Perig | 18 | 22 | 7 | 1 |
| 9 | Emol | 19 | 28 | 6 | 2 |
| 10 | Day 12 hours | 20 | 32 | 1 | 0 |
| 11 | Emol | 21 | 38 | 8 | 1 |
| 12 | Sun in Lent | 22 | 20 | 2 | 1 |
| 13 | Emol | 23 | 4 | II | 4 |
| 14 | Emol | 24 | 16 | 4 | 3 |
| 15 | Emol | 25 | 2 | 2m | 0 |
| 16 | Emol | 26 | 15 | 2 | 5 |
| 17 | Emol | 27 | 28 | 0 | 5 |
| 18 | Emol | 28 | 16 | 7 | 5 |
| 19 | Sun in Lent | 29 | 2 | 6 | 8 |
| 20 | Emol | 30 | 4 | VS | 0 |
| 21 | Emol | 1 | 16 | 4 | 3 |
| 22 | Apog | 2 | 28 | 2 | 2 |
| 23 | Emol | 3 | 10 | 0 | 1 |
| 24 | 25 day 13 ho. | 4 | 22 | 0 | 8 |
| 25 | Annunt. Mary | 5 | 4 | X | 2 |
| 26 | Mid-lent Sund. | 6 | 16 | 6 | 3 |
| 27 | Emol | 7 | 29 | 4 | 3 |
| 28 | Emol | 8 | 12 | Y | 3 |
| 29 | Emol | 9 | 25 | 2 | 4 |
| 30 | Emol | 10 | 9 | 0 | 8 |
| 31 | Emol | 11 | 23 | 1 | 5 |

14 24 2 27 2 30 2 33 2 36 2 39 2 42 2 45 2 48 2 51 2 54 2 57 2 60 2 63 2 66 2 69 2 72 2 75 2 78 2 81 2 84 2 87 2 90 2 93 2 96 2 99 2 102 2 105 2 108 2 111 2 114 2 117 2 120 2 123 2 126 2 129 2 132 2 135 2 138 2 141 2 144 2 147 2 150 2 153 2 156 2 159 2 162 2 165 2 168 2 171 2 174 2 177 2 180 2 183 2 186 2 189 2 192 2 195 2 198 2 201 2 204 2 207 2 210 2 213 2 216 2 219 2 222 2 225 2 228 2 231 2 234 2 237 2 240 2 243 2 246 2 249 2 252 2 255 2 258 2 261 2 264 2 267 2 270 2 273 2 276 2 279 2 282 2 285 2 288 2 291 2 294 2 297 2 300 2 303 2 306 2 309 2 312 2 315 2 318 2 321 2 324 2 327 2 330 2 333 2 336 2 339 2 342 2 345 2 348 2 351 2 354 2 357 2 360 2 363 2 366 2 369 2 372 2 375 2 378 2 381 2 384 2 387 2 390 2 393 2 396 2 399 2 402 2 405 2 408 2 411 2 414 2 417 2 420 2 423 2 426 2 429 2 432 2 435 2 438 2 441 2 444 2 447 2 450 2 453 2 456 2 459 2 462 2 465 2 468 2 471 2 474 2 477 2 480 2 483 2 486 2 489 2 492 2 495 2 498 2 501 2 504 2 507 2 510 2 513 2 516 2 519 2 522 2 525 2 528 2 531 2 534 2 537 2 540 2 543 2 546 2 549 2 552 2 555 2 558 2 561 2 564 2 567 2 570 2 573 2 576 2 579 2 582 2 585 2 588 2 591 2 594 2 597 2 600 2 603 2 606 2 609 2 612 2 615 2 618 2 621 2 624 2 627 2 630 2 633 2 636 2 639 2 642 2 645 2 648 2 651 2 654 2 657 2 660 2 663 2 666 2 669 2 672 2 675 2 678 2 681 2 684 2 687 2 690 2 693 2 696 2 699 2 702 2 705 2 708 2 711 2 714 2 717 2 720 2 723 2 726 2 729 2 732 2 735 2 738 2 741 2 744 2 747 2 750 2 753 2 756 2 759 2 762 2 765 2 768 2 771 2 774 2 777 2 780 2 783 2 786 2 789 2 792 2 795 2 798 2 801 2 804 2 807 2 810 2 813 2 816 2 819 2 822 2 825 2 828 2 831 2 834 2 837 2 840 2 843 2 846 2 849 2 852 2 855 2 858 2 861 2 864 2 867 2 870 2 873 2 876 2 879 2 882 2 885 2 888 2 891 2 894 2 897 2 900 2 903 2 906 2 909 2 912 2 915 2 918 2 921 2 924 2 927 2 930 2 933 2 936 2 939 2 942 2 945 2 948 2 951 2 954 2 957 2 960 2 963 2 966 2 969 2 972 2 975 2 978 2 981 2 984 2 987 2 990 2 993 2 996 2 999 2 1002 2 1005 2 1008 2 1011 2 1014 2 1017 2 1020 2 1023 2 1026 2 1029 2 1032 2 1035 2 1038 2 1041 2 1044 2 1047 2 1050 2 1053 2 1056 2 1059 2 1062 2 1065 2 1068 2 1071 2 1074 2 1077 2 1080 2 1083 2 1086 2 1089 2 1092 2 1095 2 1098 2 1101 2 1104 2 1107 2 1110 2 1113 2 1116 2 1119 2 1122 2 1125 2 1128 2 1131 2 1134 2 1137 2 1140 2 1143 2 1146 2 1149 2 1152 2 1155 2 1158 2 1161 2 1164 2 1167 2 1170 2 1173 2 1176 2 1179 2 1182 2 1185 2 1188 2 1191 2 1194 2 1197 2 1200 2 1203 2 1206 2 1209 2 1212 2 1215 2 1218 2 1221 2 1224 2 1227 2 1230 2 1233 2 1236 2 1239 2 1242 2 1245 2 1248 2 1251 2 1254 2 1257 2 1260 2 1263 2 1266 2 1269 2 1272 2 1275 2 1278 2 1281 2 1284 2 1287 2 1290 2 1293 2 1296 2 1299 2 1302 2 1305 2 1308 2 1311 2 1314 2 1317 2 1320 2 1323 2 1326 2 1329 2 1332 2 1335 2 1338 2 1341 2 1344 2 1347 2 1350 2 1353 2 1356 2 1359 2 1362 2 1365 2 1368 2 1371 2 1374 2 1377 2 1380 2 1383 2 1386 2 1389 2 1392 2 1395 2 1398 2 1401 2 1404 2 1407 2 1410 2 1413 2 1416 2 1419 2 1422 2 1425 2 1428 2 1431 2 1434 2 1437 2 1440 2 1443 2 1446 2 1449 2 1452 2 1455 2 1458 2 1461 2 1464 2 1467 2 1470 2 1473 2 1476 2 1479 2 1482 2 1485 2 1488 2 1491 2 1494 2 1497 2 1500 2 1503 2 1506 2 1509 2 1512 2 1515 2 1518 2 1521 2 1524 2 1527 2 1530 2 1533 2 1536 2 1539 2 1542 2 1545 2 1548 2 1551 2 1554 2 1557 2 1560 2 1563 2 1566 2 1569 2 1572 2 1575 2 1578 2 1581 2 1584 2 1587 2 1590 2 1593 2 1596 2 1599 2 1602 2 1605 2 1608 2 1611 2 1614 2 1617 2 1620 2 1623 2 1626 2 1629 2 1632 2 1635 2 1638 2 1641 2 1644 2 1647 2 1650 2 1653 2 1656 2 1659 2 1662 2 1665 2 1668 2 1671 2 1674 2 1677 2 1680 2 1683 2 1686 2 1689 2 1692 2 1695 2 1698 2 1701 2 1704 2 1707 2 1710 2 1713 2 1716 2 1719 2 1722 2 1725 2 1728 2 1731 2 1734 2 1737 2 1740 2 1743 2 1746 2 1749 2 1752 2 1755 2 1758 2 1761 2 1764 2 1767 2 1770 2 1773 2 1776 2 1779 2 1782 2 1785 2 1788 2 1791 2 1794 2 1797 2 1800 2 1803 2 1806 2 1809 2 1812 2 1815 2 1818 2 1821 2 1824 2 1827 2 1830 2 1833 2 1836 2 1839 2 1842 2 1845 2 1848 2 1851 2 1854 2 1857 2 1860 2 1863 2 1866 2 1869 2 1872 2 1875 2 1878 2 1881 2 1884 2 1887 2 1890 2 1893 2 1896 2 1899 2 1902 2 1905 2 1908 2 1911 2 1914 2 1917 2 1920 2 1923 2 1926 2 1929 2 1932 2 1935 2 1938 2 1941 2 1944 2 1947 2 1950 2 1953 2 1956 2 1959 2 1962 2 1965 2 1968 2 1971 2 1974 2 1977 2 1980 2 1983 2 1986 2 1989 2 1992 2 1995 2 1998 2 2001 2 2004 2 2007 2 2010 2 2013 2 2016 2 2019 2 2022 2 2025 2 2028 2 2031 2 2034 2 2037 2 2040 2 2043 2 2046 2 2049 2 2052 2 2055 2 2058 2 2061 2 2064 2 2067 2 2070 2 2073 2 2076 2 2079 2 2082 2 2085 2 2088 2 2091 2 2094 2 2097 2 2100 2 2103 2 2106 2 2109 2 2112 2 2115 2 2118 2 2121 2 2124 2 2127 2 2130 2 2133 2 2136 2 2139 2 2142 2 2145 2 2148 2 2151 2 2154 2 2157 2 2160 2 2163 2 2166 2 2169 2 2172 2 2175 2 2178 2 2181 2 2184 2 2187 2 2190 2 2193 2 2196 2 2199 2 2202 2 2205 2 2208 2 2211 2 2214 2 2217 2 2220 2 2223 2 2226 2 2229 2 2232 2 2235 2 2238 2 2241 2 2244 2 2247 2 2250 2 2253 2 2256 2 2259 2 2262 2 2265 2 2268 2 2271 2 2274 2 2277 2 2280 2 2283 2 2286 2 2289 2 2292 2 2295 2 2298 2 2301 2 2304 2 2307 2 2310 2 2313 2 2316 2 2319 2 2322 2 2325 2 2328 2 2331 2 2334 2 2337 2 2340 2 2343 2 2346 2 2349 2 2352 2 2355 2 2358 2 2361 2 2364 2 2367 2 2370 2 2373 2 2376 2 2379 2 2382 2 2385 2 2388 2 2391 2 2394 2 2397 2 2400 2 2403 2 2406 2 2409 2 2412 2 2415 2 2418 2 2421 2 2424 2 2427 2 2430 2 2433 2 2436 2 2439 2 2442 2 2445 2 2448 2 2451 2 2454 2 2457 2 2460 2 2463 2 2466 2 2469 2 2472 2 2475 2 2478 2 2481 2 2484 2 2487 2 2490 2 2493 2 2496 2 2499 2 2502 2 2505 2 2508 2 2511 2 2514 2 2517 2 2520 2 2523 2 2526 2 2529 2 2532 2 2535 2 2538 2 2541 2 2544 2 2547 2 2550 2 2553 2 2556 2 2559 2 2562 2 2565 2 2568 2 2571 2 2574 2 2577 2 2580 2 2583 2 2586 2 2589 2 2592 2 2595 2 2598 2 2601 2 2604 2 2607 2 2610 2 2613 2 2616 2 2619 2 2622 2 2625 2 2628 2 2631 2 2634 2 2637 2 2640 2 2643 2 2646 2 2649 2 2652 2 2655 2 2658 2 2661 2 2664 2 2667 2 2670 2 2673 2 2676 2 2679 2 2682 2 2685 2 2688 2 2691 2 2694 2 2697 2 2700 2 2703 2 2706 2 2709 2 2712 2 2715 2 2718 2 2721 2 2724 2 2727 2 2730 2 2733 2 2736 2 2739 2 2742 2 2745 2 2748 2 2751 2 2754 2 2757 2 2760 2 2763 2 2766 2 2769 2 2772 2 2775 2 2778 2 2781 2 2784 2 2787 2 2790 2 2793 2 2796 2 2799 2 2802 2 2805 2 2808 2 2811 2 2814 2 2817 2 2820 2 2823 2 2826 2 2829 2 2832 2 2835 2 2838 2 2841 2 2844 2 2847 2 2850 2 2853 2 2856 2 2859 2 2862 2 2865 2 2868 2 2871 2 2874 2 2877 2 2880 2 2883 2 2886 2 2889 2 2892 2 2895 2 2898 2 2901 2 2904 2 2907 2 2910 2 2913 2 2916 2 2919 2 2922 2 2925 2 2928 2 2931 2 2934 2 2937 2 2940 2 2943 2 2946 2 2949 2 2952 2 2955 2 2958 2 2961 2 2964 2 2967 2 2970 2 2973 2 2976 2 2979 2 2982 2 2985 2 2988 2 2991 2 2994 2 2997 2 3000 2 3003 2 3006 2 3009 2 3012 2 3015 2 3018 2 3021 2 3024 2 3027 2 3030 2 3033 2 3036 2 3039 2 3042 2 3045 2 3048 2 3051 2 3054 2 3057 2 3060 2 3063 2 3066 2 3069 2 3072 2 3075 2 3078 2 3081 2 3084 2 3087 2 3090 2 3093 2 3096 2 3099 2 3102 2 3105 2 3108 2 3111 2 3114 2 3117 2 3120 2 3123 2 3126 2 3129 2 3132 2 3135 2 3138 2 3141 2 3144 2 3147 2 3150 2 3153 2 3156 2 3159 2 3162 2 3165 2 3168 2 3171 2 3174 2 3177 2 3180 2 3183 2 3186 2 3189 2 3192 2 3195 2 3198 2 3201 2 3204 2 3207 2 3210 2 3213 2 3216 2 3219 2 3222 2 3225 2 3228 2 3231 2 3234 2 3237 2 3240 2 3243 2 3246 2 3249 2 3252 2 3255 2 3258 2 3261 2 3264 2 3267 2 3270 2 3273 2 3276 2 3279 2 3282 2 3285 2 3288 2 3291 2 3294 2 3297 2 3300 2 3303 2 3306 2 3309 2 3312 2 3315 2 3318 2 3321 2 3324 2 3327 2 3330 2 3333 2 3336 2 3339 2 3342 2 3345 2 3348 2 3351 2 3354 2 3357 2 3360 2 3363 2 3366 2 3369 2 3372 2 3375 2 3378 2 3381 2 3384 2 3387 2 3390 2 3393 2 3396 2 3399 2 3402 2 3405 2 3408 2 3411 2 3414 2 3417 2 3420 2 3423 2 3426 2 3429 2 3432 2 3435 2 3438 2 3441 2 3444 2 3447 2 3450 2 3453 2 3456 2 3459 2 3462 2 3465 2 3468 2 3471 2 3474 2 3477 2 3480 2 3483 2 3486 2 3489 2 3492 2 3495 2 3498 2 3501 2 3504 2 3507 2 3510 2 3513 2 3516 2 3519 2 3522 2 3525 2 3528 2 3531 2 3534 2 3537 2 3540 2 3543 2 3546 2 3549 2 3552 2 3555 2 3558 2 3561 2 3564 2 3567 2 3570 2 3573 2 3576 2 3579 2 3582 2 3585 2 3588 2 3591 2 3594 2 3597 2 3600 2 3603 2 3606 2 3609 2 3612 2 3615 2 3618 2 3621 2 3624 2 3627 2 3630 2 3633 2 3636 2 3639 2 3642 2 3645 2 3648 2 3651 2 3654 2 3657 2 3660 2 3663 2 3666 2 3669 2 3672 2 3675 2 3678 2 3681 2 3684 2 3687 2 3690 2 3693 2 3696 2 3699 2 3702 2 3705 2 3708 2 3711 2 3714 2 3717 2 3720 2 3723 2 3726 2 3729 2 3732 2 3735 2 3738 2 3741 2 3744 2 3747 2 3750 2 3753 2 3756 2 3759 2 3762 2 3765 2 3768 2 3771 2 3774 2 3777 2 3780 2 3783 2 3786 2 3789 2 3792 2 3795 2 3798 2 3801 2 3804 2 3807 2 3810 2 3813 2 3816 2 3819 2 3822 2 3825 2 3828 2 3831 2 3834 2 3837 2 3840 2 3843 2 3846 2 3849 2 3852 2 3855 2 3858 2 3861 2 3864 2 3867 2 3870 2 3873 2 3876 2 3879 2 3882 2 3885 2 3888 2 3891 2 3894 2 3897 2 3900 2 3903 2 3906 2 3909 2 3912 2 3915 2 3918 2 3921 2 3924 2 3927 2 3930 2 3933 2 3936 2 3939 2 3942 2 3945 2 3948 2 3951 2 3954 2 3957 2 3960 2 3963 2 3966 2 3969 2 3972 2 3975 2 3978 2 3981 2 3984 2 3987 2 3990 2 3993 2 3996 2 3999 2 4002 2 4005 2 4008 2 4011 2 4014 2 4017 2 4020 2 4023 2 4026 2 4029 2 4032 2 4035 2 4038 2 4041 2 4044 2 4047 2 4050 2 4053 2 4056 2 4059 2 4062 2 4065 2 4068 2 4071 2 4074 2 4077 2 4080 2 4083 2 4086 2 4089 2 4092 2 4095 2 4098 2 4101 2 4104 2 4107 2 4110 2 4113 2 4116 2 4119 2 4122 2 4125 2 4128 2 4131 2 4134 2 4137 2 4140 2 4143 2 4146 2 4149 2 4152 2 4155 2 4158 2 4161 2 4164 2 4167 2 4170 2 4173 2 4176 2 4179 2 4182 2 4185 2 4188 2 4191 2 4194 2 4197 2 4200 2 4203 2 4206 2 4209 2 4212 2 4215 2 4218 2 4221 2 4224 2 4227 2 4230 2 4233 2 4236 2 4239 2 4242 2 4245 2 4248 2 4251 2 4254 2 4257 2 4260 2 4263 2 4266 2 4269 2 4272 2 4275 2 4278 2 4281 2 4284 2 4287 2 4290 2 4293 2 4296 2 4299 2 4302 2 4305 2 4308 2 4311 2 4314 2 4317 2 4320 2 4323 2 4326 2 4329 2 4332 2 4335 2 4338 2 4341 2 4344 2 4347 2 4350 2 4353 2 4356 2 4359 2 4362 2 4365 2 4368 2 4371 2 4374 2 4377 2 4380 2 4383 2 4386 2 4389 2 4392 2 4395 2 4398 2 4401 2 4404 2 4407 2 4410 2 4413 2 4416 2 4419 2 4422 2 4425 2 4428 2 4431 2 4434 2 4437 2 4440 2 4443 2 4446 2 4449 2 4452 2 4455 2 4458 2 4461 2 4464 2 4467 2 4470 2 4473 2 4476 2 4479 2 4482 2 4485 2 4488 2 4491 2 4494 2 4497 2 4500 2 4503 2 4506 2 4509 2 4512 2 4515 2 4518 2 4521 2 4524 2 4527 2 4530 2 4533 2 4536 2 4539 2 4542 2 4545 2 4548 2 4551 2 4554 2 4557 2 4560 2 4563 2 4566 2 4569 2 4572 2 4575 2 4578 2 4581 2 4584 2 4587 2 4590 2 4593 2 4596 2 4599 2 4602 2 4605 2 4608 2 4611 2 4614 2 4617 2 4620 2 4623 2 4626 2 4629 2 4632 2 4635 2 4638 2 4641 2 4644 2 4647 2 4650 2 4653 2 4656 2 4659 2 4662 2 4665 2 4668 2 4671 2 4674 2 4677 2 4680 2 4683 2 4686 2 4689 2 4692 2 4695 2 4698 2 4701 2 4704 2 4707 2 4710 2 4713 2 4716 2 4719 2 4722 2 4725 2 4728 2 4731 2 4734 2 4737 2 4740 2 4743 2 4746 2 4749 2 4752 2 4755 2 4758 2 4761 2 4764 2 4767 2 4770 2 4773 2 4776 2 4779 2 4782 2 4785 2 4788 2 4791 2 4794 2 4797 2 4800 2 4803 2 4806 2 4809 2 4812 2 4815 2 4818 2 4821 2 4824 2 4827 2 4830 2 4833 2 4836 2 4839 2 4842 2 4845 2 4848 2 4851 2 4854 2 4857 2 4860 2 4863 2 4866 2 4869 2 4872 2 4875 2 4878 2 4881 2 4884 2 4887 2 4890 2 4893 2 4896 2 4899 2 4902 2 4905 2 4908 2 4911 2 4914 2 4917 2 4920 2 4923 2 4926 2 4929 2 4932 2 4935 2 4938 2 4941 2 4944 2 4947 2 4950 2 4953 2 4956 2 4959 2 4962 2 4965 2 4968 2 4971 2 4974 2 4977 2 4980 2 4983 2 4986 2 4989 2 4992 2 4995 2 4998 2 5001 2 5004 2 5007 2 5010 2 5013 2 5016 2 5019 2 5022 2 5025 2 5028 2 5031 2 5034 2 5037 2 5040 2 5043 2 5046 2 5049 2 5052 2 5055 2 5058 2 5061 2 5064 2 5067 2 5070 2 5073 2 5076 2 5079 2 5082 2 5085 2 5088 2 5091 2 5094 2 5097 2 5100 2 5103 2 5106 2 5109 2 5112 2 5115 2 5118 2 5121 2 5124 2 5127 2 5130 2 5133 2 5136 2 5139 2 5142 2 5145 2 5148 2 5151 2 5154 2 5157 2 5160 2 5163 2 5166 2 5169 2 5172 2 5175 2 5178 2 5181 2 5184 2 5187 2 5190 2 5193 2 5196 2 5199 2 5202 2 5205 2 5208 2 5211 2 5214 2 5217 2 5220 2 5223 2 5226 2 5229 2 5232 2 5235 2 5238 2 5241 2 5244 2 5247 2 5250 2 5253 2 5256 2 5259 2 5262 2 5265 2 5268 2 5271 2 5274 2 5277 2 5280 2 5283 2 5286 2 5289 2 5292 2 5295 2 5298 2 5301 2 5304 2 5307 2 5310 2 5313 2 5316 2 5319 2 5322 2 5325 2 5328 2 5331 2 5334 2 5337 2 5340 2 5343 2 5346 2 5349 2 5352 2 5355 2 5358 2 5361 2 5364 2 5367 2 5370 2 5373 2 5376 2 5379 2 5382 2 5385 2 5388 2 5391 2 5394 2 5397 2 5400 2 5403 2 5406 2 5409 2 5412 2 5415 2 5418 2 5421 2 5424 2 5427 2 5430 2 5433 2 5436 2 5439 2 5442 2 5445 2 5448 2 5451 2 5454 2 5457 2 5460 2 5463 2 5466 2 5

| Days | Remarkable days &c. | ○ | V | D | II | Lan | D | ORIL | Sou |
|------|---------------------|----|---|----|----|-----|----|------|-----|
| | | o | o | o | o | h. | m. | h. | m. |
| 1 | | 21 | 9 | 7 | 0 | 5A. | 11 | 7 | 17 |
| 2 | Sun fun lent. | 22 | 9 | 21 | 0 | 4 | 8 | 5 | 19 |
| 3 | | 23 | 9 | 5 | 1 | 4 | 4 | 5 | 13 |
| 4 | Perig. | 24 | 9 | 19 | 2 | 3 | 5 | 5 | 11 |
| 5 | | 25 | 8 | 3 | 2 | 2 | 4 | 5 | 9 |
| 6 | | 26 | 8 | 17 | 3 | 1 | 2 | 5 | 7 |
| 7 | | 27 | 8 | 1 | 4 | 0B. | 0 | 5 | 5 |
| 8 | | 28 | 8 | 15 | 4 | 1 | 2 | 5 | 3 |
| 9 | Palm Sunday. | 29 | 7 | 29 | 3 | 2 | 4 | 5 | 1 |
| 10 | day 1. hours. | 30 | 7 | 13 | 2 | 1 | 3 | 5 | 5 |
| 11 | | 31 | 7 | 26 | 8 | 4 | 3 | 4 | 58 |
| 12 | | 32 | 6 | 10 | 1 | 4 | 8 | 4 | 56 |
| 13 | | 33 | 6 | 23 | 2 | 5 | 0 | 4 | 54 |
| 14 | | 34 | 6 | 5 | 9 | 5 | 0 | 4 | 52 |
| 15 | | 35 | 6 | 18 | 4 | 4 | 8 | 4 | 50 |
| 16 | Easter day. | 36 | 5 | 0 | 36 | 4 | 3 | 4 | 49 |
| 17 | | 37 | 5 | 12 | 5 | 3 | 7 | 4 | 47 |
| 18 | Spog. | 38 | 5 | 24 | 3 | 2 | 9 | 4 | 45 |
| 19 | | 39 | 4 | 6 | 1 | 2 | 0 | 4 | 43 |
| 20 | | 40 | 4 | 18 | 0 | 1 | 0 | 4 | 41 |
| 21 | | 41 | 4 | 29 | 9 | 0A. | 0 | 4 | 40 |
| 22 | * V Δ ○ * | 42 | 3 | 12 | X | 1 | 1 | 4 | 38 |
| 23 | Low Sund. Geor. | 43 | 3 | 24 | 6 | 2 | 1 | 4 | 36 |
| 24 | new booz | 44 | 3 | 7 | V | 4 | 3 | 4 | 35 |
| 25 | St. Mark. Evan. | 45 | 2 | 10 | 6 | 4 | 0 | 4 | 33 |
| 26 | 68 ychoulo | 46 | 2 | 4 | O | 4 | 7 | 4 | 32 |
| 27 | Day 2. hours | 47 | 2 | 18 | 4 | 5 | 0 | 4 | 30 |
| 28 | relax sud | 48 | 1 | 2 | II | 4 | 5 | 4 | 29 |
| 29 | olden | 49 | 1 | 16 | 7 | 4 | 9 | 4 | 27 |
| 30 | Aft. Easter. | 50 | 0 | 1 | 52 | 4 | 4 | 4 | 25 |

| | | | | | | |
|-----|--------|------|----------|---------|----------------|----------------------|
| 129 | 8 12 | 2 25 | 4 19 | 4 18 | 51 | the air distill |
| 229 | 8 12 | 3 26 | 1 20 | 6 17 | 8 | * 5 * 5 * 5 * 5 |
| 329 | 8 12 | 4 26 | 8 21 | 8 17 | 1 | with wind |
| 429 | 8 12 | 5 27 | 6 23 | 1 16 | 5 | 5 4 4 5 5 5 5 5 |
| 529 | 9 12 | 6 28 | 3 24 | 4 15 | 9 | 5 5 5 5 h. rain and |
| 629 | 9 12 | 8 29 | 1 25 | 6 15 | 4 | 5 5. follows |
| 729 | 9 12 | 9 29 | 8 26 | 8 14 | 9 | 5 5 5 5 5 5. for |
| 8 | 0 13 | 0 | 0 5 28 | 1 14 | 6 | 5 4. many |
| 9 | 0 13 | 2 1 | 3 29 | 3 14 | 2 | * h days. Wind |
| 0 | 0 13 | 3 2 | 0 0 5 14 | 0 | 5 4 5 5 storms | |
| 1 | 0 13 | 4 2 | 8 18 | 8 13 | 8 | 5 h 5 5 5 5 5 |
| 2 | 0 13 | 5 3 | 5 3 | 0 13 | 7 | 5 4 and hail about |
| 3 | 0 13 | 7 4 | 2 4 | 2 13 d. | 7 | full Moon |
| 4 | 0 2 13 | 8 5 | 0 5 | 5 23 | 8 | 5 h. and |
| 5 | 0 2 13 | 9 5 | 7 6 | 7 13 | 9 | 5 5. several |
| 6 | 0 3 14 | 0 1 | 4 7 | 9 14 | 1 | days after |
| 7 | 0 3 14 | 2 7 | 2 9 | 2 14 | 4 | 5 5 5 5 5 5 5 5 |
| 8 | 0 4 14 | 4 7 | 9 10 | 4 14 | 8 | more wind and |
| 9 | 0 4 14 | 5 8 | 6 11 | 5 15 | 3 | 5 h. 5 5 5 5 baby |
| 0 | 0 5 14 | 7 9 | 4 12 | 9 15 | 8 | 5 5 * 5. mo-hail on |
| 1 | 0 5 14 | 8 10 | 1 14 | 1 16 | 4 | But now |
| 2 | 0 6 15 | 0 10 | 8 15 | 4 17 | 0 | 5 5 * 5 5 5 5 |
| 3 | 0 6 15 | 1 11 | 6 16 | 6 17 | 7 | 5 h follows fair and |
| 4 | 0 7 15 | 3 12 | 3 17 | 8 18 | 5 | good weather |
| 5 | 0 8 15 | 4 13 | 0 19 | 0 19 | 3 | 5 4 5 5. winds and |
| 6 | 0 8 15 | 6 13 | 7 20 | 3 20 | 2 | 5 h. cloudy &c. |
| 7 | 0 9 15 | 8 14 | 4 21 | 5 21 | 2 | 5 5 * 5 5 5 5 |
| 8 | 0 15 | 9 15 | 2 22 | 17 22 | 2 | * h. but fast |
| 9 | 0 16 | 1 15 | 9 24 | 0 25 | 2 | * 5 nable |
| 1 | 1 16 | 3 16 | 6 25 | 3 24 | 3 | weather |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

Latitudes of the Places

Lunar Aspects

| | | | | | | | | | | | | | | | |
|----|---|---|----|---|----|----|----|----|----|----|----|------|------------------|------------|--------------|
| 1 | 1 | 2 | 16 | 1 | 17 | 2 | 26 | 4 | 25 | 4 | 6 | 4 | * 3 * | 6 | |
| 2 | 1 | 2 | 16 | 6 | 18 | 1 | 27 | 7 | 26 | 6 | □ | ♀ | * ♀. ♂ | h | pleasant |
| 3 | 1 | 3 | 16 | 8 | 18 | 8 | 28 | 9 | 27 | 9 | □ | ♂ | 2, 3, 4, & 6, | p | perhaps |
| 4 | 1 | 4 | 16 | 9 | 19 | 5 | 6 | II | 1 | 29 | f | □ | ○. △ | ♀ | □ ♀ a little |
| 5 | 1 | 4 | 17 | 1 | 20 | 2 | 1 | 4 | 0 | 4 | * | 4 | nocturnal | | |
| 6 | 1 | 5 | 17 | 3 | 20 | 9 | 2 | 6 | 1 | 8 | △ | ♂. △ | ○ * h | mo | |
| 7 | 1 | 6 | 17 | 5 | 21 | 7 | 3 | 8 | 3 | 2 | △ | ♀. | sture, but good | | |
| 8 | 1 | 7 | 17 | 6 | 22 | 4 | 5 | 1 | 4 | 6 | □ | 4. | weather and | | |
| 9 | 1 | 7 | 17 | 8 | 23 | 1 | 6 | 3 | 6 | 1 | □ | h. | g ♀ cooling | | |
| 10 | 1 | 8 | 18 | 6 | 23 | 8 | 7 | 5 | 7 | 6 | △ | 4. | 8 ♂ about the | | |
| 11 | 1 | 9 | 18 | 1 | 24 | 5 | 8 | 7 | 9 | 2 | 8 | ○. △ | h | full moon | |
| 12 | 2 | 6 | 18 | 4 | 25 | 3 | 10 | 6 | 10 | 8 | 8 | ♀. | a little rain | | |
| 13 | 2 | 1 | 18 | 5 | 26 | 5 | 11 | 2 | 12 | 4 | | | or cloudy | | |
| 14 | 2 | 2 | 18 | 7 | 26 | 7 | 12 | 4 | 14 | 1 | | | but | | |
| 15 | 2 | 3 | 18 | 9 | 27 | 2 | 13 | 6 | 15 | 8 | △ | ♀ | 8 4. | good | |
| 16 | 2 | 3 | 19 | 1 | 28 | 1 | 14 | 9 | 17 | 6 | △ | ♂ | 8 h. | △ | ○ |
| 17 | 2 | 4 | 19 | 3 | 28 | 8 | 16 | 1 | 19 | 4 | △ | ♀ | able and cooling | | |
| 18 | 2 | 5 | 19 | 5 | 29 | 5 | 17 | 3 | 21 | 2 | □ | ♀. | □ ♂ | gales for | |
| 19 | 2 | 6 | 19 | 7 | 0 | II | 1 | 18 | 6 | 23 | 1 | □ | ○ | the most | |
| 20 | 2 | 7 | 19 | 9 | 0 | 9 | 19 | 8 | 25 | 6 | □ | ♀ | △ 4. | * ♀ part | |
| 21 | 2 | 8 | 20 | 1 | 1 | 6 | 21 | 0 | 27 | 6 | * | ♂. | △ h | except | |
| 22 | 2 | 9 | 20 | 3 | 2 | 3 | 22 | 2 | 29 | 6 | * | ○. | □ 4 | some | |
| 23 | 3 | 0 | 20 | 5 | 3 | 6 | 23 | 5 | II | 8 | * | ♀. | □ h | little | |
| 24 | 3 | 1 | 20 | 7 | 3 | 7 | 24 | 7 | 3 | 6 | | | | alteration | |
| 25 | 3 | 2 | 20 | 9 | 4 | 2 | 25 | 9 | 5 | 1 | * | 4. | * h | to | |
| 26 | 3 | 3 | 21 | 1 | 5 | 1 | 27 | 1 | 7 | 1 | ♂ | ♂ | ♂ ♀. | ○ | thunder |
| 27 | 3 | 4 | 21 | 3 | 5 | 8 | 28 | 4 | 9 | 4 | ♂ | ♀ | or rain | | |
| 28 | 3 | 5 | 21 | 5 | 6 | 9 | 29 | 6 | 11 | 5 | | | | about | |
| 29 | 3 | 6 | 21 | 7 | 7 | 10 | 30 | 8 | 13 | 7 | ♂ | 4. | the 24. | | |
| 30 | 3 | 7 | 21 | 9 | 7 | 9 | 2 | 0 | 15 | 9 | ♂ | h | * ♂. | * ♀ | |
| 31 | 3 | 8 | 22 | 1 | 8 | 6 | 3 | 1 | 16 | 1 | ○. | & | perhaps | | |

Locations. D. H. N. M. C. A. C.

| | | | | | | | |
|----------------|----|----|---------|------|------|-------|---|
| First Quarter. | 2 | 10 | 12 Mo. | ☾ 26 | ☿ 4 | 6 26 | 5 |
| Full Moon. | 9 | 11 | 56 Aft. | ☿ 28 | ☿ 25 | 11 26 | 3 |
| Last Quarter. | 18 | 3 | 23 Mo. | ☿ 25 | ☿ 1 | 16 26 | 0 |
| New Moon. | 25 | 2 | 33 Mo. | ☿ 20 | ☿ 26 | 21 25 | 8 |
| | | | | | | 26 25 | 5 |

| Days | Remarkable days, &c. | ☉ | ☿ | ♂ | ☿ | Lat. ☉ | ☉ Rise | ☉ Set |
|------|----------------------|----|---|----|-----|--------|-------------|-----------|
| | | o | o | o | o | | h. m. h. m. | |
| 1 | E | 20 | 7 | 8 | 7 | 1B. 1 | 3 49 | 5 35 Aft. |
| 2 | F | 28 | 6 | 22 | 7 | 2 3 | 3 49 | 6 26 |
| 3 | S | 22 | 6 | 6 | 2 | 3 3 | 3 49 | 7 14 |
| 4 | A | 23 | 6 | 19 | 5 | 4 0 | 3 48 | 8 1 |
| 5 | B | 24 | 5 | 2 | 5 | 4 6 | 3 48 | 8 48 |
| 6 | C | 25 | 5 | 15 | 3 | 5 0 | 3 48 | 9 36 |
| 7 | D | 26 | 4 | 28 | 0 | 5 1 | 3 47 | 10 24 |
| 8 | E | 27 | 4 | 10 | 7 | 4 9 | 3 47 | 11 12 |
| 9 | F | 28 | 3 | 22 | 8 | 4 6 | 3 47 | 12 0 |
| 10 | S | 29 | 3 | 4 | VS9 | 4 0 | 3 47 | 0 0 Mo. |
| 11 | A | 0 | ☿ | 2 | 17 | 0 3 | 3 47 | 0 49 |
| 12 | B | 1 | 2 | 28 | 9 | 2 2 | 3 47 | 1 37 |
| 13 | C | 2 | 3 | 10 | ☿ | 1 2 | 3 47 | 2 24 |
| 14 | D | 3 | 1 | 22 | 5 | 0 2 | 3 47 | 3 10 |
| 15 | E | 4 | 0 | 4 | X4 | 0A. 9 | 3 47 | 3 55 |
| 16 | F | 5 | 0 | 16 | 4 | 1 9 | 3 48 | 4 39 |
| 17 | S | 5 | 9 | 28 | 5 | 2 8 | 3 48 | 5 22 |
| 18 | A | 6 | 9 | 11 | ☿ | 3 6 | 3 48 | 6 5 |
| 19 | B | 7 | 8 | 23 | 7 | 4 3 | 3 49 | 6 50 |
| 20 | C | 8 | 8 | 6 | ☿ | 4 9 | 3 49 | 7 37 |
| 21 | D | 9 | 8 | 20 | 4 | 5 2 | 3 50 | 8 28 |
| 22 | E | 10 | 7 | 4 | II6 | 5 1 | 3 50 | 9 22 |
| 23 | F | 11 | 7 | 19 | 0 | 4 7 | 3 51 | 10 19 |
| 24 | S | 12 | 6 | 3 | ☿ | 4 0 | 3 51 | 11 20 |
| 25 | A | 13 | 6 | 19 | 0 | 2 9 | 3 52 | 0 25 |
| 26 | B | 14 | 5 | 4 | ☿ | 1 7 | 3 52 | 1 25 |
| 27 | C | 15 | 5 | 19 | 3 | 0 4 | 3 53 | 2 24 |
| 28 | D | 16 | 4 | 4 | ☿ | 0B. 9 | 3 54 | 3 21 |
| 29 | E | 17 | 4 | 18 | 6 | 8 1 | 3 55 | 4 15 |
| 30 | F | 18 | 3 | 2 | ☿ | 3 2 | 3 56 | 5 6 |

| Days | Remarkable days, &c. | ☉ | ☿ | ♂ | ♂ | Lat. | ☽ | ☿ | Rise | Set |
|------|-------------------------|---|---|---|---|------|---|---|-------|-------|
| | | o | | o | | o | | | h. m. | h. m. |

| | | | | | | | | | | | | | |
|----|---|----|------------------|----|---|----|----|-----|---|---|----|----|----|
| 1 | A | 3 | Aft. Trin. | 19 | 3 | 16 | 2 | 4B. | 3 | 3 | 59 | 5 | 54 |
| 2 | B | 4 | | 20 | 2 | 29 | 4 | 4 | 7 | 3 | 58 | 6 | 41 |
| 3 | C | 5 | | 21 | 2 | 12 | M | 5 | 1 | 3 | 59 | 7 | 28 |
| 4 | D | 6 | day 16 hours. | 22 | 3 | 25 | 0 | 5 | 2 | 4 | 0 | 8 | 16 |
| 5 | E | 7 | Term ends. | 23 | 1 | 7 | 7 | 5 | 1 | 4 | 1 | 9 | 4 |
| 6 | F | 8 | | 24 | 1 | 19 | 6 | 4 | 7 | 4 | 3 | 9 | 5 |
| 7 | G | 9 | | 25 | 0 | 1 | V | 4 | 1 | 4 | 4 | 0 | 40 |
| 8 | H | 10 | | 26 | 0 | 13 | 7 | 3 | 3 | 4 | 5 | 11 | 23 |
| 9 | I | 11 | 4 Aft. Trin. | 26 | 9 | 25 | 6 | 2 | 4 | 4 | 6 | 12 | 16 |
| 10 | J | 12 | 5 Apog. | 27 | 9 | 7 | 5 | 3 | 4 | 4 | 7 | 0 | 16 |
| 11 | K | 13 | | 28 | 8 | 19 | 4 | 0 | 4 | 4 | 9 | 1 | 4 |
| 12 | L | 14 | | 29 | 8 | 1 | X | 0A | 6 | 4 | 10 | 1 | 48 |
| 13 | M | 15 | | 0E | 7 | 13 | 2 | 1 | 6 | 4 | 11 | 2 | 32 |
| 14 | N | 16 | | 1 | 7 | 25 | 2 | 2 | 6 | 4 | 13 | 3 | 16 |
| 15 | O | 17 | | 2 | 6 | 7 | V | 3 | 6 | 4 | 14 | 3 | 59 |
| 16 | P | 18 | 3 Aft. Trin. | 3 | 6 | 19 | 8 | 4 | 3 | 4 | 16 | 4 | 43 |
| 17 | Q | 19 | | 4 | 6 | 1 | 0 | 4 | 8 | 4 | 17 | 5 | 28 |
| 18 | R | 20 | | 5 | 5 | 15 | 6 | 5 | 2 | 4 | 19 | 6 | 16 |
| 19 | S | 21 | | 6 | 5 | 29 | 1 | 5 | 2 | 4 | 20 | 7 | 7 |
| 20 | T | 22 | | 7 | 4 | 13 | 10 | 5 | 0 | 4 | 21 | 8 | 3 |
| 21 | U | 23 | | 8 | 4 | 27 | 5 | 4 | 4 | 4 | 23 | 8 | 59 |
| 22 | V | 24 | | 9 | 3 | 12 | 5 | 3 | 4 | 4 | 24 | 10 | 0 |
| 23 | W | 25 | 6 Aft. Trin. | 10 | 3 | 27 | 4 | 2 | 2 | 4 | 26 | 11 | 0 |
| 24 | X | 26 | 7 Perig. Ec. In. | 11 | 3 | 12 | 6 | 0 | 2 | 4 | 27 | 9 | 4 |
| 25 | Y | 27 | 8 James Ap. | 12 | 2 | 27 | 9 | 0B | 4 | 4 | 29 | 1 | 4 |
| 26 | Z | 28 | day 15 hours. | 13 | 2 | 12 | M | 1 | 7 | 4 | 30 | 2 | 4 |
| 27 | A | 29 | | 14 | 1 | 27 | 5 | 2 | 8 | 4 | 32 | 2 | 59 |
| 28 | B | 30 | | 15 | 1 | 13 | 8 | 3 | 8 | 4 | 34 | 3 | 46 |
| 29 | C | 31 | | 16 | 0 | 25 | 6 | 4 | 6 | 4 | 36 | 4 | 31 |
| 30 | D | 32 | 7 Aft. Trin. | 17 | 0 | 8 | M | 5 | 1 | 4 | 38 | 5 | 26 |
| 31 | E | 33 | | 18 | 0 | 21 | 8 | 5 | 1 | 4 | 40 | 6 | 11 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 7 | B | 0 | 4 | B | 0 | 8 | B | 1 | 6 | B | 0 | 3 |
| 2 | 0 | 7 | | 0 | 5 | | 0 | 7 | | 1 | 8 | A | 1 | 3 |
| 3 | 0 | 7 | | 0 | 5 | | 0 | 8 | | 1 | 4 | | 3 | 3 |

Latitudes of the Planets

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 7 | B | 0 | 4 | B | 0 | 8 | B | 1 | 6 | B | 0 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Lunar Aspects, Sec

| | | | | | | | | | | | |
|----|----|---|----|---|----|---|----|---|----|---|----------------------|
| 1 | 7 | 4 | 28 | 6 | 29 | 8 | 11 | 1 | 14 | 8 | ★♀★♀.☐☉ Cloudy |
| 2 | 7 | 6 | 28 | 9 | 0 | 4 | 12 | 4 | 16 | 1 | ☐☐.△♂bur good wea |
| 3 | 7 | 7 | 29 | 1 | 1 | 1 | 13 | 6 | 17 | 3 | ☐h.☐♀☐♀ then |
| 4 | 7 | 8 | 29 | 3 | 1 | 8 | 14 | 8 | 18 | 5 | △☉.△☐ rain about |
| 5 | 7 | 9 | 29 | 5 | 2 | 4 | 16 | 0 | 19 | 7 | △h and so near the |
| 6 | 8 | 1 | 29 | 8 | 3 | 1 | 17 | 2 | 20 | 8 | △♀.△♀ perhaps |
| 7 | 8 | 2 | 0 | 0 | 3 | 8 | 18 | 4 | 21 | 9 | 8♂ with some thunder |
| 8 | 8 | 3 | 0 | 2 | 4 | 4 | 19 | 7 | 22 | 9 | the like again |
| 9 | 8 | 5 | 0 | 4 | 5 | 1 | 20 | 9 | 23 | 9 | 8♂☉☐ about the |
| 10 | 8 | 6 | 0 | 6 | 5 | 8 | 22 | 1 | 24 | 8 | 8h Full moon and |
| 11 | 8 | 7 | 0 | 9 | 6 | 4 | 23 | 3 | 25 | 7 | 8♀ after cloudy and |
| 12 | 8 | 8 | 1 | 1 | 7 | 1 | 24 | 5 | 26 | 5 | 8♀ moist |
| 13 | 9 | 0 | 1 | 3 | 7 | 8 | 25 | 7 | 27 | 3 | △♂. fairest |
| 14 | 9 | 1 | 1 | 5 | 8 | 4 | 27 | 0 | 28 | 0 | for the |
| 15 | 9 | 2 | 1 | 7 | 9 | 1 | 28 | 2 | 28 | 7 | △☐△☉.☐♂△ hmo |
| 16 | 9 | 4 | 2 | 0 | 9 | 7 | 29 | 4 | 29 | 3 | part till about the |
| 17 | 9 | 5 | 2 | 2 | 10 | 4 | 0 | 6 | 29 | 8 | △♀△♀☐☐.☐☉ |
| 18 | 9 | 6 | 2 | 4 | 11 | 0 | 1 | 8 | 0 | 3 | ☐h★♂. then rain |
| 19 | 9 | 7 | 2 | 6 | 11 | 7 | 3 | 0 | 0 | 7 | ☐♀★♀☐♀ and |
| 20 | 9 | 9 | 2 | 9 | 12 | 4 | 4 | 2 | 1 | 0 | ★☉★h cloudy wea |
| 21 | 10 | 0 | 3 | 1 | 13 | 0 | 5 | 5 | 1 | 2 | ★♀ soulyry if not |
| 22 | 10 | 1 | 3 | 3 | 13 | 7 | 6 | 7 | 1 | 3 | ★♀.♂♂ rain and |
| 23 | 10 | 2 | 3 | 5 | 14 | 5 | 7 | 9 | 1 | 3 | ☐☐ thunder, |
| 24 | 10 | 4 | 3 | 7 | 15 | 0 | 9 | 1 | 1 | 3 | ☐h♂☉ chiefly 21 |
| 25 | 10 | 5 | 4 | 0 | 15 | 6 | 10 | 3 | 1 | 2 | ♂♀ 24, 29, and |
| 26 | 10 | 6 | 4 | 2 | 16 | 3 | 11 | 5 | 1 | 1 | ♂♀★♂ 26. then |
| 27 | 10 | 8 | 4 | 4 | 16 | 9 | 12 | 7 | 0 | 9 | ★☐ better weather |
| 28 | 10 | 9 | 4 | 6 | 17 | 6 | 13 | 9 | 0 | 5 | ★h.☐☐☐ for the |
| 29 | 11 | 0 | 4 | 8 | 18 | 2 | 15 | 1 | 0 | 1 | ♀ moist |
| 30 | 11 | 1 | 5 | 0 | 18 | 9 | 16 | 3 | 1 | 5 | ☐☐.☐h part to |
| 31 | 11 | 3 | 5 | 3 | 19 | 5 | 17 | 6 | 2 | 9 | ☐☐☐△♂. the |

(Faint handwritten notes at the bottom of the page, likely bleed-through from the reverse side.)

[illegible]

Lunations. D. H. M. M. C. Afc. D. S. e

| | | | | | |
|------------------|-------|--------|----------|-------|---|
| ○ Full Moon. | 6 10 | 1 Aft. | 23 11 28 | 6 21 | 7 |
| ☾ Last Quarter. | 14 10 | 19 Mo. | 11 16 | 11 21 | 4 |
| ● New Moon. | 21 11 | 1 Mo. | 13 25 | 16 21 | 3 |
| ☽ First Quarter. | 28 11 | 12 Mo. | 2 5 | 21 20 | 9 |
| | | | | 26 20 | 6 |

Days. Remarkable Days. Sec. vs Lat. Rise Son.

| Days. | Remarkable Days. Sec. | vs Lat. | Rise | Son. |
|-------|-----------------------|---------|-------------|-----------|
| 1 | 18 | 9 19 4 | 2 B. 9 5 38 | 19 Aft |
| 2 | 19 | 9 1 2 | 9 5 40 | 9 6 |
| 3 | 20 | 9 13 1 | 9 5 42 | 9 53 |
| 4 | 21 | 9 24 9 | 9 A. 2 5 44 | 10 39 |
| 5 | 22 | 8 6 5 | 3 5 46 | 11 23 |
| 6 | 23 | 8 19 0 | 3 5 48 | 12 7 |
| 7 | 24 | 8 1 3 | 3 5 50 | 7 Mo |
| 8 | 25 | 8 13 8 | 4 0 51 | 0 52 |
| 9 | 26 | 7 26 4 | 4 7 53 | 1 38 |
| 10 | 27 | 7 9 5 | 5 1 55 | 2 24 |
| 11 | 28 | 7 22 2 | 5 2 57 | 3 12 |
| 12 | 29 | 7 5 4 | 5 0 59 | 4 2 |
| 13 | 0 | 7 18 8 | 4 6 6 | 1 55 |
| 14 | 1 | 7 20 5 | 3 9 6 | 3 50 |
| 15 | 2 | 6 10 5 | 2 9 6 | 5 48 |
| 16 | 3 | 6 0 7 | 1 8 6 | 7 47 |
| 17 | 4 | 6 15 2 | 0 6 6 | 9 45 |
| 18 | 5 | 6 29 9 | 0 B. 6 6 11 | 9 42 |
| 19 | 6 | 6 14 7 | 1 8 6 | 13 39 |
| 20 | 7 | 6 29 5 | 3 0 6 | 15 34 |
| 21 | 8 | 5 12 0 | 4 0 6 | 17 27 Aft |
| 22 | 9 | 5 28 3 | 4 8 6 | 19 20 |
| 23 | 10 | 5 12 2 | 5 1 6 | 21 11 |
| 24 | 11 | 5 25 7 | 5 1 6 | 23 2 |
| 25 | 12 | 5 8 8 | 4 9 6 | 25 53 |
| 26 | 13 | 5 21 4 | 4 4 6 | 26 43 |
| 27 | 14 | 5 3 7 | 3 8 6 | 28 33 |
| 28 | 15 | 5 15 8 | 3 0 6 | 30 22 |
| 29 | 16 | 5 27 7 | 2 1 6 | 32 10 |
| 30 | 17 | 5 9 5 | 1 1 6 | 34 57 |

60 4 11 10 11 10 17 14 12 18 10 19 10 19
 24 4 12 25 11 12 26 10 12 29 10 14

| | | | | | | | |
|----|------|------|------|------|------|---|---------------------------|
| 1 | B. 8 | B. 8 | B. 8 | A. 8 | B. 1 | 6 | Latitudes of the Planets. |
| 11 | 8 | 8 | 8 | 1 | 2 | 7 | |
| 21 | 8 | 8 | 8 | 1 | 3 | 9 | |

| | | | | | | | |
|---|---|---|----|----|----|----|--------------------|
| 1 | 4 | 8 | 12 | 16 | 20 | 24 | Lunar Aspects, &c. |
| 1 | 4 | 8 | 12 | 16 | 20 | 24 | |

| | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----------------------------|
| 15 | 2 | 12 | 0 | 9 | 9 | 26 | 0 | 4 | 9 | △ ⊙ . fair most |
| 2 | 15 | 3 | 12 | 2 | 10 | 5 | 27 | 2 | 6 | 7 □ ♀ . part, clouds and |
| 3 | 15 | 14 | 12 | 3 | 11 | 1 | 28 | 3 | 8 | 4 8 ♂ 8 ♀ . 8 h wind |
| 4 | 15 | 0 | 5 | 12 | 5 | 11 | 8 | 29 | 5 | 10 2 △ ♀ with hail or rain |
| 5 | 15 | 1 | 7 | 12 | 7 | 12 | 4 | 0 | 11 | 12 some |
| 6 | 15 | 8 | 12 | 9 | 13 | 0 | 10 | 9 | 13 | 9 8 ♀ . 8 ⊙ winds |
| 7 | 15 | 9 | 13 | 1 | 13 | 6 | 30 | 1 | 15 | 8 stirring |
| 8 | 16 | 10 | 13 | 2 | 14 | 2 | 48 | 3 | 17 | 6 △ ♀ . △ ♂ . △ h but for |
| 9 | 16 | 1 | 13 | 5 | 14 | 8 | 5 | 4 | 19 | 5 the most part |
| 10 | 16 | 8 | 13 | 7 | 15 | 5 | 6 | 6 | 21 | 3 8 ♀ . □ ♀ . seasonable |
| 11 | 16 | 8 | 13 | 8 | 16 | 1 | 7 | 8 | 23 | 2 □ ♂ . □ h . △ ♀ rain or |
| 12 | 16 | 14 | 13 | 0 | 16 | 7 | 9 | 0 | 25 | 0 △ ⊙ . hail follows |
| 13 | 16 | 8 | 14 | 2 | 17 | 3 | 10 | 2 | 26 | 8 * ♀ * h * ♂ . trouble |
| 14 | 16 | 6 | 14 | 4 | 17 | 9 | 11 | 4 | 28 | 6 □ ♀ . □ ⊙ . and windy |
| 15 | 16 | 17 | 14 | 6 | 18 | 5 | 12 | 5 | 0 | 4 △ ♀ . weather |
| 16 | 16 | 8 | 14 | 8 | 19 | 2 | 13 | 7 | 2 | 2 * ♀ * ⊙ . more wind |
| 17 | 16 | 8 | 14 | 9 | 19 | 8 | 14 | 9 | 4 | 0 □ ♀ . ♂ ♀ . ♂ h ♂ ♂ |
| 18 | 17 | 0 | 15 | 1 | 20 | 4 | 16 | 1 | 5 | 8 rain or hail, but |
| 19 | 17 | 1 | 15 | 3 | 21 | 0 | 17 | 2 | 7 | 5 * ♀ . some times |
| 20 | 17 | 2 | 15 | 5 | 21 | 6 | 18 | 4 | 9 | 3 clear and fair |
| 21 | 17 | 3 | 15 | 6 | 22 | 2 | 19 | 6 | 11 | 0 ♂ ⊙ . ♂ ♀ . * ♀ * h |
| 22 | 17 | 4 | 15 | 8 | 22 | 8 | 20 | 8 | 12 | 7 * ♂ . windy and mist |
| 23 | 17 | 5 | 16 | 0 | 23 | 5 | 21 | 9 | 14 | 4 □ ♀ . □ h weather |
| 24 | 17 | 6 | 16 | 1 | 24 | 1 | 23 | 1 | 16 | 1 ♂ ♀ . □ ♂ . bringing mo |
| 25 | 17 | 7 | 16 | 3 | 24 | 7 | 24 | 3 | 17 | 8 * ⊙ . rain for several |
| 26 | 17 | 8 | 16 | 5 | 25 | 3 | 25 | 4 | 19 | 4 △ ♀ . △ h * ♀ . △ ♂ |
| 27 | 17 | 9 | 16 | 6 | 25 | 9 | 26 | 5 | 21 | 1 after which (days) |
| 28 | 18 | 0 | 16 | 8 | 26 | 5 | 27 | 8 | 22 | 7 □ ⊙ . the month |
| 29 | 18 | 0 | 16 | 9 | 27 | 1 | 28 | 9 | 24 | 3 □ ♀ . * ♀ . ends with |
| 30 | 18 | 1 | 17 | 1 | 27 | 7 | 0 | 1 | 25 | 9 fairer weather |

| | | | | | | | | | | | |
|------------------|----|---|----|------|------|----|----|----|----|-----|---|
| ○ Full Moon. | 4 | 6 | 1 | 33 | Afr. | M | 17 | VS | 17 | 120 | 4 |
| ☾ Last Quarter. | 13 | 5 | 55 | Afr. | VS | 25 | ○ | 26 | 11 | 19 | 8 |
| ● New Moon. | 20 | 1 | 41 | Afr. | 2 | 2 | 1 | 16 | 19 | 8 | 6 |
| ☽ First Quarter. | 28 | 7 | 34 | Mo. | M | 4 | M | 16 | 2 | 19 | 8 |
| | | | | | | | | | 26 | 19 | 8 |

| Days | Remarkable days. &c. | ○ | ☾ | ☽ | ☿ | ♂ | ♀ | ♂ | ♀ | Lat. | ☽ | ☽ | Rise | ☽ | Sou. |
|------|----------------------|----|---|----|----|----|----|----|----|------|----|----|------|----|------|
| | | o | o | o | o | h. | m. | h. | m. | | | | h. | m. | m. |
| 1 | 6 Afr. Trinit. | 18 | 4 | 2 | 3 | 0 | B. | 1 | 6 | 36 | 18 | 43 | Afr. | | |
| 2 | b | 19 | 4 | 3 | 2 | 1 | A. | 0 | 6 | 38 | 9 | 27 | | | |
| 3 | c | 20 | 4 | 1 | 5 | 2 | 2 | 0 | 6 | 40 | 10 | 11 | | | |
| 4 | d | 21 | 4 | 2 | 7 | 4 | 3 | 0 | 6 | 42 | 10 | 56 | | | |
| 5 | e | 22 | 4 | 1 | 9 | 5 | 3 | 8 | 6 | 44 | 11 | 41 | | | |
| 6 | f | 23 | 4 | 2 | 2 | 6 | 4 | 5 | 6 | 46 | 12 | 27 | | | |
| 7 | g | 24 | 4 | 3 | 5 | 6 | 4 | 9 | 6 | 48 | 0 | 27 | Mo. | | |
| 8 | h | 25 | 4 | 4 | 18 | 8 | 5 | 0 | 6 | 50 | 1 | 15 | | | |
| 9 | i | 26 | 4 | 5 | 2 | 11 | 2 | 4 | 9 | 6 | 52 | 2 | 5 | | |
| 10 | j | 27 | 4 | 6 | 15 | 7 | 4 | 6 | 6 | 54 | 2 | 58 | | | |
| 11 | k | 28 | 4 | 7 | 29 | 4 | 3 | 9 | 6 | 56 | 3 | 53 | | | |
| 12 | l | 29 | 4 | 8 | 13 | 3 | 3 | 0 | 6 | 58 | 4 | 51 | | | |
| 13 | m | 30 | 4 | 9 | 27 | 2 | 2 | 0 | 7 | 0 | 5 | 48 | | | |
| 14 | n | 1 | 4 | 10 | 11 | 3 | 1 | 8 | 7 | 1 | 6 | 45 | | | |
| 15 | o | 2 | 4 | 11 | 25 | 4 | 0 | B. | 4 | 7 | 3 | 41 | | | |
| 16 | p | 3 | 4 | 12 | 9 | 7 | 1 | 6 | 7 | 5 | 8 | 35 | | | |
| 17 | q | 4 | 4 | 13 | 24 | 1 | 2 | 7 | 7 | 7 | 9 | 28 | | | |
| 18 | r | 5 | 4 | 14 | 8 | 3 | 3 | 7 | 7 | 9 | 10 | 20 | | | |
| 19 | s | 6 | 4 | 15 | 22 | 5 | 4 | 4 | 7 | 10 | 11 | 12 | | | |
| 20 | t | 7 | 4 | 16 | 6 | 6 | 4 | 9 | 7 | 12 | 0 | 3 | Afr. | | |
| 21 | u | 8 | 4 | 17 | 20 | 3 | 5 | 0 | 7 | 14 | 0 | 55 | | | |
| 22 | v | 9 | 4 | 18 | 3 | 6 | 4 | 9 | 7 | 16 | 1 | 46 | | | |
| 23 | w | 10 | 4 | 19 | 17 | 7 | 14 | 5 | 7 | 18 | 2 | 37 | | | |
| 24 | x | 11 | 4 | 20 | 1 | 4 | 13 | 8 | 7 | 20 | 3 | 28 | | | |
| 25 | y | 12 | 4 | 21 | 15 | 7 | 3 | 0 | 7 | 22 | 4 | 18 | | | |
| 26 | z | 13 | 4 | 22 | 29 | 8 | 8 | 1 | 7 | 24 | 5 | 87 | | | |
| 27 | a | 14 | 4 | 23 | 13 | 7 | 1 | 1 | 7 | 25 | 5 | 34 | | | |
| 28 | b | 15 | 5 | 24 | 5 | 5 | 1 | 1 | 7 | 27 | 6 | 40 | | | |
| 29 | c | 16 | 5 | 25 | 19 | 3 | 2 | 9 | 7 | 29 | 7 | 24 | | | |
| 30 | d | 17 | 5 | 26 | 3 | 1 | 0 | 1 | 7 | 30 | 8 | 18 | | | |
| 31 | e | 18 | 5 | 27 | 17 | 2 | 8 | 7 | 32 | 8 | 5 | 1 | | | |

noon

Latitudes of the Planets

noon

East

Lunar Aspects, &c.

REMARKS

| | | | | | | | | | | | | | | | | | | | |
|----|----|---|---|----|---|---|----|---|----|----|----|---|---|---|---|---|-------|---------------------|------------------|
| 1 | 18 | m | 2 | 17 | m | 2 | 28 | 3 | 1 | 2 | 27 | 5 | 8 | 4 | △ | ☉ | 8 | h | Cloud |
| 2 | 18 | | 3 | 17 | | 4 | 28 | 9 | 2 | 4 | 29 | 1 | △ | ♀ | 8 | ♂ | cold | With | |
| 3 | 18 | | 4 | 17 | | 5 | 29 | 5 | 3 | 6 | 30 | 7 | | | | | | rain and cold show- | |
| 4 | 18 | | 5 | 17 | | 7 | 0 | 7 | 5 | 9 | 3 | 8 | △ | ♀ | | | | ers for several | |
| 5 | 18 | | 5 | 17 | | 8 | 0 | 7 | 5 | 9 | 3 | 8 | △ | ♀ | | | | days. | |
| 6 | 18 | | 6 | 18 | | 0 | 1 | 3 | 7 | 0 | 5 | 3 | △ | 4 | △ | h | 8 | ☉ | unclear |
| 7 | 18 | | 7 | 18 | | 1 | 1 | 9 | 8 | 2 | 6 | 9 | △ | ♂ | 8 | ♀ | flant | wind | |
| 8 | 18 | | 8 | 18 | | 2 | 2 | 5 | 9 | 3 | 8 | 4 | □ | 4 | □ | h | | not without | |
| 9 | 18 | | 8 | 18 | | 4 | 3 | 1 | 10 | 5 | 10 | 0 | □ | ♂ | | | | some more | |
| 10 | 18 | | 9 | 18 | | 5 | 3 | 7 | 11 | 6 | 11 | 5 | 8 | ♀ | * | 4 | * | h | rain |
| 11 | 19 | | 0 | 18 | | 7 | 4 | 3 | 12 | 8 | 13 | 0 | △ | ☉ | * | ♂ | | more temper | |
| 12 | 19 | | 1 | 18 | | 8 | 4 | 8 | 13 | 9 | 14 | 5 | △ | ♀ | | | | rate, fair and | |
| 13 | 19 | | 2 | 18 | | 9 | 5 | 4 | 15 | 1 | 15 | 9 | □ | ☉ | | | | seasonable | |
| 14 | 19 | | 2 | 19 | | 0 | 6 | 0 | 16 | 2 | 17 | 4 | △ | ♀ | □ | ♀ | | now follow | |
| 15 | 19 | | 3 | 19 | | 2 | 6 | 6 | 17 | 3 | 18 | 9 | 4 | ♂ | h | | | lofty winds | |
| 16 | 19 | | 4 | 19 | | 3 | 7 | 2 | 18 | 5 | 20 | 3 | * | ☉ | ♂ | ♂ | | bringing | |
| 17 | 19 | | 4 | 19 | | 4 | 7 | 8 | 19 | 6 | 21 | 8 | □ | ♀ | * | ♀ | | some wet | |
| 18 | 19 | | 5 | 19 | | 6 | 8 | 4 | 20 | 7 | 23 | 2 | | | | | | yet some | |
| 19 | 19 | | 6 | 19 | | 7 | 9 | 0 | 21 | 8 | 24 | 6 | * | h | * | 4 | * | ♀ | fair |
| 20 | 19 | | 6 | 19 | | 8 | 9 | 6 | 23 | 0 | 26 | 0 | ☉ | * | | | | not | |
| 21 | 19 | | 7 | 19 | | 9 | 10 | 2 | 24 | 1 | 27 | 4 | □ | h | □ | 4 | | cloudy | |
| 22 | 19 | | 7 | 20 | | 0 | 10 | 7 | 25 | 2 | 28 | 8 | ♀ | | | | | winds, but cold | |
| 23 | 19 | | 7 | 20 | | 1 | 11 | 3 | 26 | 3 | 29 | 2 | ♂ | △ | h | △ | 4 | abate | |
| 24 | 19 | | 8 | 20 | | 2 | 11 | 9 | 27 | 4 | 1 | 8 | ♀ | | | | | moist or cloudy | |
| 25 | 19 | | 8 | 20 | | 3 | 12 | 5 | 28 | 5 | 2 | 8 | * | ☉ | △ | ♂ | | but indiffe- | |
| 26 | 19 | | 8 | 20 | | 4 | 13 | 8 | 29 | 6 | 3 | 8 | | | | | | rent weather | |
| 27 | 19 | | 9 | 20 | | 5 | 13 | 6 | 0 | VS | 7 | 5 | * | ♂ | | | | now follows cloudy | |
| 28 | 19 | | 9 | 20 | | 6 | 14 | 2 | 1 | 8 | 6 | 8 | □ | ☉ | 8 | h | 8 | 4 | cold |
| 29 | 20 | | 0 | 20 | | 7 | 14 | 7 | 2 | 9 | 8 | 0 | * | ♀ | | | | and | |
| 30 | 20 | | 0 | 20 | | 8 | 15 | 3 | 4 | 0 | 9 | 2 | □ | ♂ | 8 | ♂ | | stormy | |
| 1 | 20 | | 1 | 20 | | 9 | 15 | 9 | 5 | 1 | 10 | 4 | △ | ☉ | | | | | troubled weather |

| | | | | | | |
|-------|--------|------|------|--------|---|--------------------------|
| 120 | 1 21 | 9 16 | 4 6 | 2 11 | 6 | ☐ ♀ Troubled & cold |
| 130 | 1 21 | 9 17 | 6 7 | 3 12 | 7 | △ ♀. △ h △ 4 winds |
| 140 | 2 21 | 1 17 | 6 8 | 4 13 | 7 | driving some snow |
| 150 | 2 21 | 2 18 | 1 9 | 4 14 | 7 | △ ♀. △ ♂ ☐ h or rain |
| 160 | 2 21 | 2 18 | 7 10 | 5 15 | 7 | ☐ 4 8 ☉. windy |
| 170 | 3 21 | 3 19 | 2 11 | 6 16 | 8 | 8 ♀ weather |
| 180 | 3 21 | 4 19 | 8 12 | 6 17 | 8 | ☐ ♂ * h * 4 bringing |
| 190 | 3 21 | 4 20 | 3 13 | 7 18 | 9 | 8 ♀ some rain. |
| 200 | 3 21 | 5 20 | 9 14 | 7 18 | 7 | * ♂. △ ☉ about this |
| 210 | 4 21 | 6 21 | 5 15 | 8 19 | 2 | time and after. |
| 220 | 4 21 | 6 22 | 0 16 | 8 19 | 5 | △ ♀ ♂ h ☉ 4. cold |
| 230 | 4 21 | 7 22 | 6 17 | 9 19 | 7 | ☐ ☉. winds clearing some |
| 240 | 4 21 | 7 23 | 1 18 | 9 19r. | 7 | △ ♀ ☐ ♀. ♂ ♂ times. |
| 250 | 4 21 | 7 23 | 7 19 | 9 19 | 8 | * ☉. windy & variable |
| 260 | 4 21 | 8 24 | 2 20 | 9 19 | 3 | * ♀ * h ☐ ♀ * 4 |
| 270 | 5 21 | 8 24 | 7 22 | 0 18 | 9 | cloudy or moist |
| 280 | 5 21 | 9 25 | 3 23 | 0 18 | 3 | ☐ h ☐ 4 and |
| 290 | 5 21 | 9 25 | 8 24 | 0 17 | 5 | * ♀ * ♂. about the new |
| 300 | 5 22 | 0 26 | 4 25 | 0 16 | 5 | ♂ ☉. ♂ ♀ moon forms |
| 310r. | 5 22 | 0 26 | 9 26 | 0 15 | 5 | △ h △ 4. ☐ ♂ of wind |
| 320 | 5 22 | 0 27 | 4 26 | 9 13 | 9 | and moisture |
| 330 | 5 22 | 0 28 | 0 27 | 9 12 | 5 | follows |
| 340 | 5 22 | 1 28 | 5 28 | 8 11 | 1 | △ ♂ ♂ ♀. windy wet |
| 350 | 5 22 | 1 29 | 0 29 | 8 9 | 8 | * ♀ * ☉. and variable |
| 360 | 4 22 | 1 29 | 6 0 | 7 8 | 5 | 8 h 8 4. clouds and |
| 370 | 4 22r. | 1 0 | 1 1 | 6 7 | 3 | ☐ ♀ lofty winds. |
| 380 | 4 22 | 1 0 | 6 2 | 5 6 | 2 | ☐ ☉. after |
| 390 | 4 22 | 1 1 | 1 3 | 4 5 | 2 | 8 ♂ * ♀ △ ☉ moist & |
| 400 | 4 22 | 1 1 | 7 4 | 3 4 | 4 | △ ☉ in some places |
| 410 | 4 22 | 0 2 | 2 5 | 2 3 | 9 | △ h △ 4. cold showers. |

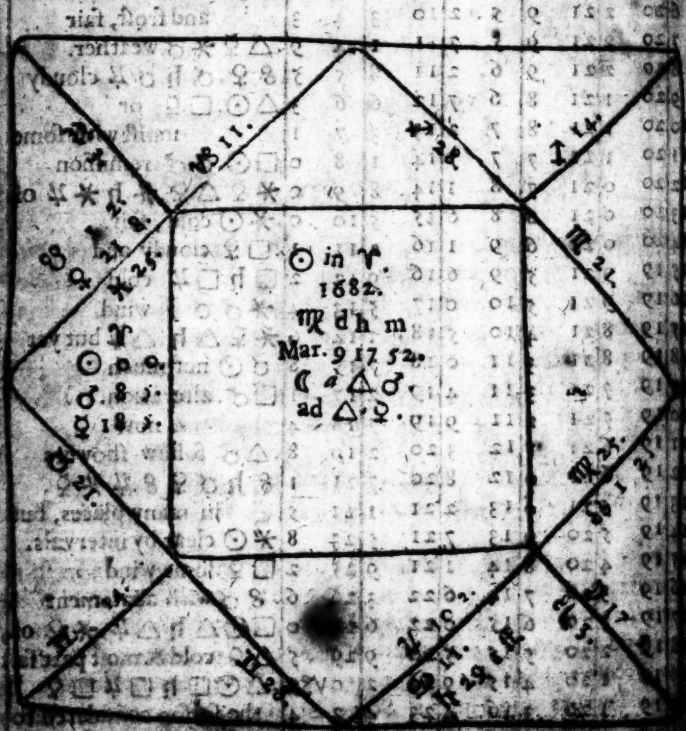
| Signations. | D. | H. | M. | M. | C. | A. | D. | H. | M. |
|------------------|----|----|----|------|----|----|----|----|----|
| ☉ Full Moon. | 4 | 4 | 52 | Aft. | ✕ | 4 | 5 | 8 | 17 |
| ☾ Last Quarter. | 11 | 9 | 51 | Mo. | ✓ | 0 | VS | 27 | 16 |
| ☽ New Moon. | 18 | 18 | 30 | Aft. | ○ | 18 | ℓ | 29 | 16 |
| ☽ First Quarter. | 27 | 1 | 14 | Mo. | ℓ | 4 | ≡ | 25 | 16 |
| | | | | | | | | | 26 |

| Days. | Remarkable | days. | Lat. | Ris. | Sou. |
|-------|------------|-------|------|-------|-------|
| | days. &c. | | | h. m. | h. m. |
| 1 | ☉ | 12 | 9 | 9 | 0 |
| 2 | ☉ | 21 | 0 | 22 | 3 |
| 3 | ☉ | 22 | 0 | 6 | 11 |
| 4 | ☉ | 23 | 0 | 20 | 3 |
| 5 | ☉ | 24 | 0 | 4 | 2 |
| 6 | ☉ | 25 | 0 | 8 | 12 |
| 7 | ☉ | 26 | 0 | 19 | 3 |
| 8 | ☉ | 27 | 0 | 4 | 0 |
| 9 | ☉ | 28 | 0 | 18 | 0 |
| 10 | ☉ | 29 | 0 | 3 | 0 |
| 11 | ☉ | 30 | 0 | 18 | 0 |
| 12 | ☉ | 1 | 0 | 3 | 0 |
| 13 | ☉ | 2 | 0 | 18 | 0 |
| 14 | ☉ | 3 | 0 | 3 | 0 |
| 15 | ☉ | 4 | 0 | 18 | 0 |
| 16 | ☉ | 5 | 0 | 3 | 0 |
| 17 | ☉ | 6 | 0 | 18 | 0 |
| 18 | ☉ | 7 | 0 | 3 | 0 |
| 19 | ☉ | 8 | 0 | 18 | 0 |
| 20 | ☉ | 9 | 0 | 3 | 0 |
| 21 | ☉ | 10 | 0 | 18 | 0 |
| 22 | ☉ | 11 | 0 | 3 | 0 |
| 23 | ☉ | 12 | 0 | 18 | 0 |
| 24 | ☉ | 13 | 0 | 3 | 0 |
| 25 | ☉ | 14 | 0 | 18 | 0 |
| 26 | ☉ | 15 | 0 | 3 | 0 |
| 27 | ☉ | 16 | 0 | 18 | 0 |
| 28 | ☉ | 17 | 0 | 3 | 0 |
| 29 | ☉ | 18 | 0 | 18 | 0 |
| 30 | ☉ | 19 | 0 | 3 | 0 |
| 31 | ☉ | 20 | 0 | 18 | 0 |

| | | | | | | | | | |
|------|-----|---|----|---|----|---|----|----|--------------------------|
| 120 | 422 | 0 | 2 | 7 | 6 | 1 | 3 | 6 | ♀ some cold rain |
| 220 | 322 | 0 | 3 | 2 | 7 | 0 | 3 | 4 | ☐ ☐ ☐ 4 or mo. v. |
| 320 | 322 | 0 | 3 | 7 | 7 | 8 | 3d | 4 | 8 ♀ △ ♂ △ ♀ windy |
| 420 | 322 | 0 | 4 | 2 | 8 | 6 | 3 | 5 | * ♀ * 4 8 ☉ clear |
| 520 | 322 | 0 | 4 | 7 | 9 | 5 | 3 | 8 | ☐ ♂ sometimes |
| 620 | 221 | 9 | 5 | 2 | 10 | 3 | 4 | 3 | and frost, fair |
| 720 | 221 | 9 | 5 | 7 | 11 | 1 | 4 | 9 | △ ♀ * ♂ weather. |
| 820 | 221 | 9 | 6 | 2 | 11 | 8 | 5 | 5 | 8 ♀ ♂ h ♂ 4 cloudy |
| 920 | 121 | 8 | 6 | 7 | 12 | 6 | 6 | 3 | △ ☉. ☐ ♀ or |
| 1020 | 121 | 8 | 7 | 2 | 13 | 3 | 7 | 1 | moist with some |
| 1120 | 121 | 7 | 7 | 7 | 14 | 1 | 8 | 0 | ☐ ☉. ♂ ♂ remission |
| 1220 | 021 | 7 | 8 | 1 | 14 | 8 | 9 | 0 | * ♀ △ ♀ * h * 4 of |
| 1320 | 021 | 6 | 8 | 6 | 15 | 5 | 10 | 0 | * ☉ cold, fair. |
| 1420 | 021 | 6 | 9 | 1 | 16 | 2 | 11 | 1 | ☐ ♀ cloudy and |
| 1519 | 921 | 5 | 9 | 6 | 16 | 9 | 12 | 2 | ☐ h ☐ 4. cold |
| 1619 | 921 | 5 | 10 | 0 | 17 | 5 | 13 | 4 | * ♂ ♂ ♀ wind |
| 1719 | 821 | 4 | 10 | 5 | 18 | 1 | 14 | 6 | * ♀ △ h. △ 4 but yet |
| 1819 | 821 | 3 | 11 | 0 | 18 | 7 | 15 | 8 | ♂ ☉ not much |
| 1919 | 721 | 3 | 11 | 4 | 19 | 2 | 17 | 1 | ☐ ♂. alteration. |
| 2019 | 721 | 2 | 11 | 9 | 19 | 7 | 18 | 4 | now |
| 2119 | 621 | 1 | 12 | 3 | 20 | 2 | 19 | 8 | △ ♂ fellow showers |
| 2219 | 621 | 0 | 12 | 8 | 20 | 7 | 21 | 1 | 8 h ♂ ♀ 8 4 * ♀ |
| 2319 | 521 | 0 | 13 | 2 | 21 | 1 | 21 | 5 | in many places, but |
| 2419 | 520 | 9 | 13 | 7 | 21 | 5 | 23 | 8 | * ☉. clear by intervals. |
| 2519 | 420 | 8 | 14 | 1 | 21 | 9 | 25 | 2 | ☐ ♀. some wind |
| 2619 | 320 | 7 | 14 | 6 | 22 | 3 | 26 | 6 | 8 ♂ with abatement |
| 2719 | 320 | 6 | 15 | 0 | 22 | 6 | 28 | 0 | ☐ ☉ △ h △ 4. * ♀ of |
| 2819 | 220 | 5 | 15 | 5 | 22 | 9 | 29 | 5 | △ ♀. cold & most part fa |
| 2919 | 120 | 4 | 15 | 9 | 23 | 2 | 0 | VS | △ ☉ ☐ h ☐ 4 ☐ ♀ |
| 3019 | 120 | 3 | 16 | 4 | 23 | 4 | 2 | 4 | the season considered to |
| 3119 | 020 | 2 | 16 | 8 | 23 | 6 | 3 | 8 | △ ♂ * h * 4 the end |

☉ in ♊. 1681. December 10 day 15. Ho. 5 min.
 MC. ☾ 14. Ascend. M. 27 ☽ in ☐ h. 24. 4.

Many rumours, fears and Discontents among the Vulgar
 this Quarter: In January, and till after Hilary Term ends,
 much dispute to little purpose, some questions about Charters and
 other Writings, with variety of disturbance to both sexes: Also
 often cold stormy and Winterlike weather; but 'tis an ill Wind
 that blows no body good, and the residue of this Quarter proves
 generally more acceptable.



...the Full-moon perditional, do generally promise a healthy and good season: But the Sun applying to the Conjunction of *Mars*, and the Quartile of *Jupiter* and *Mars* as joined, may denote some Violent offences or rebellious and great disorders of Youth, which (its hoped) will be regulated by the Wisdom of our Gracious Sovereign and the Magistracy: However, some seditious heads being now at work, I heartily wish for Peace, and a good Correspondence between the Nations subject to the Signs Υ and \odot . The Combustion of \odot in Υ signifies Wars and slaughters in the Eastern parts, but the Δ of \odot and h may mitigate this evil, and the presence of h in \odot fortifies the sign; also the Δ of h and z is not ill, and the Δ of z and y is beneficial to Merchants, Scribes and several other persons in their negotiations.

In *April* we may undoubtedly expect store of showers and hail storms, and our news out of *Ireland* not all of the best, but in *May* following its more serene and reasonable.

☉ in ☿ June 10 day 18 ho. 14 min.
 M. C. Υ 4. Afc. \odot 29. y 2 8 2. ad 8 2 4.

The air inclinable to moisture, with temperate and cooling gales of Wind; and notwithstanding \odot in II in the 11. some former discords or disharmonies may be now reduced to a sober correspondence: Yet h being posited in the Ascendant, *late* *strife* in *Harbis*, and in the latter part of *July* ☉ coming to his ☉, shews southerly close weather; if not worse for harm: But in *August* 'tis for the most part temperate and good.

☉ in ♋ Sept 18 day 6 ho. 43 min.
 M. C. Υ 10. Afc. Υ 25. h 4 Δ ☉. 20 2 4 15.

Now some formerly base knaveries may begin to freshen up, especially in and near the latter end of *October*. God bless *London* and all our friends, who are concerned from *London*, *Paris* and all other the like disharmonies. Rancorous and boisterous success about the said time; for is like the threatened great Terrors and Harms. Some Epidemical sicknesses may now appear, among which we hope in *November* and *December* following will be greatly mitigated.

☉ in

in VS December 10 day 20
M.C. 16. A.C. VS 10. 22 12 10 10 10 10

The weather is not unreasonable, nor (as I hope) will the
☿ or ♀ and ☽, or ☿ of ☿ and ☽ Universally or greatly dis-
turb us. But for what may be farther expected from the Con-
junctions of ♀ and ☽, in this and the beginning of the next Year.
I only here observe, that they fall in the Ascendant of Rome,
but *Infim* *Oris* of London.

Here the Courteous and Intelligent Reader may observe, that
by reason of some small corrections in the Parallax and Refraction
of the Sun, which have been since the time of the Noble *Tycho*
Bræhe most clearly discovered and demonstrated, and upon other
very good grounds, myself and generally all now living that are
really Astronomers, do differ at some times about 7 or 8 min.
from the vulgar Ephemerides and Tables of the Suns place; so
that the times of the *Aequinoxes*, &c. Are by our last and most
accurate determination, as thou here seest.

Of the Eclipses of this Year, 1682

Four Eclipses are in their proper places briefly noted in the
aforegoing Ephemeris, viz. two of the Sun invisible unto us,
and two of the Moon Observable, as followeth.

The first Lunar Eclipse, is Total, and happeneth on the 11th
of February at night: The beginning at 9 ho. 49 mi. The Immer-
sion at 10 ho. 21 mi. The middle at 11 ho. 3 mi. The Emer-
sion at 11 ho. 54 mi. and the end at 12 ho. 37 mi.

Touching its signification: It stirreth up Winds and Variable
weather, with notable debates about matters of Religion or Wri-
tings, &c. some of which may possibly end well.

The second Lunar Eclipse, is also Total, and falleth on our
Western August in the morning: The beginning at 2 ho. 2 mi.
The Immersion at 2 ho. 30 mi. The middle at 2 ho. 16 mi. The
Emersion at 2 ho. 4 mi. and the end at 2 ho. 14 mi.

But of these, in this last mentioned Eclipse, the beginning
only visible unto us, for within half an hour after, the Moon
is in the Earths shadow.

The Effects of this, are not such as I have said of the first.

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Here note, That from the *Radix*, which was the day before the Mean Vernal *Equinox* next preceding the Nativity of Christ, the Intercalary or Additional Day for each complete 100th. or 200th. year, is omitted; so that those are made common years; and every 3800 years, being by this our Correction one Period, is perpetually less than so many *Julian* years, by 29 days; whence the mean length of the *Tropical* year, is 365 days, 5 hours, 49 minutes, 6 sec. 38 thirds; which is generally confirmed by the most accurate observations.

Our correct *Solar* Months, with the number of days in each Month, do here in order follow.

| Months Solar, | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Common Year, Days, | 30. | 31. | 30. | 31. | 30. | 31. | 30. | 31. | 30. | 31. | 30. | 30. |
| Leap-Year, Days, | 30. | 31. | 30. | 31. | 30. | 31. | 30. | 31. | 30. | 31. | 30. | 31. |

The Middle-motions of ☾ from ☉ are in 10000 parts of a Circle.

Every Period following after any of the above-found years of Christ, addeth to the Week-day 3, and to the Middle-motion of ☾ from ☉, just 4300.

But contrarily, every Period past afore any of the said years, substracteth from the Week-day 3, and from the said Middle-motion, exactly 4300.

And, for the better Explanation of the Use of our said Correction, take these following Examples.

1. To any given Year, Month, and day of the Month, to find the day of the Week, with the Middle-motion of ☾ from ☉.
Anno 1682. On the first day of our first month, which answereth to the 12th of *March*, in the same year, the Week-day, &c. is required.

| | W. | D. | M. | D. | f. | ☉ |
|---------------|----|----|------|-----|----|---|
| Year 1600 | 3 | | 22 | 56 | | |
| 80 | 2 | | 48 | 24 | | |
| 2 | 2 | | 72 | 01 | | |
| Month 1 | 0 | | | 0 | | |
| Day 1 | 1 | | | 339 | | |
| Sum, reje-2 | | | | | | |
| Fine Cycles 3 | 1 | | 4620 | | | |

So the Week-day is found 1, or the first, and the Middle-motion of the Moon from the Sun 4620, as was required.

Observe here, That the sum of Week-days being collected, and divided by 7, the remaining Figure shews the Week-day sought, as above. But if at any time 0 remaineth, then the Week-day is 7.

In any given Year and Month, to find the Day and Hour of the Mean ☿ or ♀ of ☉ and ☾.

In the Year 1682. Month 1. I would know the Day and Hour of the Mean ♀ of ☉ and ☾; and also the Mean ☿ of ☉ and ☾.

| For the ♀ M ☾ fr. ☉ | | | For the ☿ M ☾ fr. ☉ | | |
|---------------------|------|-----------|---------------------|------|------------|
| Year | 1600 | 2256 | Year | 1600 | 2256 |
| | 80 | 4824 | | 80 | 4824 |
| | 2 | 7201 | | 2 | 7201 |
| Month | 1 | 0 | Month | 1 | 0 |
| Sum | | 4281 sub. | Sum | | 4281 sub. |
| | | 5000 ♀ | | | 0 ☿ |
| | | 719 rest. | | | 5719 rest. |
| Day | 2 | 677 sub. | Day | 16 | 5418 sub. |
| | | 42 rest. | | | 301 rest. |
| Hour | 3 | | Hour | 21 | 296 sub. |
| | | | Min. | 21 | 5 rest. |

So in this Year 1682. Month 1.

The Mean ♀ of ☉ and ☾ is found the 2d. day, and exactly 3 hours;

And the Mean ☿, the 16th. 21 hours 21 minutes.

Note here also, That by our ultimate Correction, the difference between the Mean and True *Equinox* or *Solstice*, can never be fully two days.

And the Mean Conjunction or Opposition of the Sun and Moon, is for ever within 14 hours of the True.

In the following Correct Account for the year 1682. the Courteous Reader may farther observe, that for regulating of the four most usual Quarter-days, and other reasons which may be given, the day of *St. Michael* is brought back from the *Julian Calendar* 17 days; but the other fix'd Festivals, for the most part, 12 days, some 13.

The days in each Correct Quarter, beginning first from the Annunciation, are.

In the Common Year, 91. 92. 91. 91.
In the Leap-year, 91. 92. 91. 92.

The Correct Account for the Year 1682.
with the answerable Month-days by
the Julian Calendar.

| M.D. | W. | Month | Mar. | W. | Month | Apr | W. | Month | May |
|-------|----|-------------|-------|----|----------------|-------|----|------------|-------|
| Corr. | D. | Cor. 1. | Days. | D. | Cor. 2. | Days. | D. | Cor. 3. | Days. |
| 1 | 1 | | 12 | 3 | | 11 | 0 | | 12 |
| 2 | 2 | Annun. Mar. | 13 | 4 | | 12 | 7 | | 13 |
| 3 | 3 | | 14 | 5 | S. Marke Ev. | 13 | 1 | | 14 |
| 4 | 4 | | 15 | 6 | | 14 | 2 | | 15 |
| 5 | 5 | | 16 | 7 | | 15 | 3 | | 16 |
| 6 | 6 | | 17 | 1 | | 16 | 4 | | 17 |
| 7 | 7 | | 18 | 2 | | 17 | 5 | | 18 |
| 8 | 1 | Easter Day. | 19 | 3 | | 18 | 6 | | 19 |
| 9 | 2 | | 20 | 4 | S. Phil. & Ja. | 19 | 7 | | 20 |
| 10 | 3 | | 21 | 5 | | 20 | 1 | | 21 |
| 11 | 4 | | 22 | 6 | | 21 | 2 | | 22 |
| 12 | 5 | | 23 | 7 | | 22 | 3 | | 23 |
| 13 | 6 | | 24 | 1 | | 23 | 4 | | 24 |
| 14 | 7 | | 25 | 2 | | 24 | 5 | | 25 |
| 15 | 1 | | 26 | 3 | | 25 | 6 | | 26 |
| 16 | 2 | | 27 | 4 | | 26 | 7 | | 27 |
| 17 | 3 | | 28 | 5 | Ascension | 27 | 1 | | 28 |
| 18 | 4 | | 29 | 6 | | 28 | 2 | K. Ch. N. | 29 |
| 19 | 5 | | 30 | 7 | | 29 | 3 | S. Barnab. | 30 |
| 20 | 6 | | 31 | 1 | | 30 | 4 | | 31 |
| 21 | 7 | Apr. | 1 | 2 | May | 1 | 5 | Jun. | 1 |
| 22 | 1 | | 2 | 3 | | 2 | 6 | | 2 |
| 23 | 2 | | 3 | 4 | | 3 | 7 | | 3 |
| 24 | 3 | | 4 | 5 | | 4 | 1 | | 4 |
| 25 | 4 | | 5 | 6 | | 5 | 2 | | 5 |
| 26 | 5 | | 6 | 7 | | 6 | 3 | | 6 |
| 27 | 6 | | 7 | 1 | Whit-Sund. | 7 | 4 | | 7 |
| 28 | 7 | | 8 | 2 | | 8 | 5 | | 8 |
| 29 | 1 | | 9 | 3 | | 9 | 6 | | 9 |
| 30 | 2 | | 10 | 4 | | 10 | 7 | | 10 |
| 31 | | | | 5 | | 11 | | | |

The Correct Account for the Year 1682
with the answerable Month-days by
the *Julian-Calendar*.

| M.D. | W. | Month | Jun. | W. | Month | Jul. | W. | Month | Aug. |
|-------|----|---------------|-------|----|-------------|----------|----|-------------|----------|
| Corr. | D. | Cor. | Days. | D. | Cor. | 5. Days. | D. | Cor. | 6. Days. |
| 1 | 1 | | 11 | 4 | | 12 | 6 | | 11 |
| 2 | 2 | S. Joh. Bap. | 12 | 5 | S. Jam. Ap. | 13 | 7 | S. Barthol. | 12 |
| 3 | 3 | | 13 | 6 | | 14 | 1 | | 13 |
| 4 | 4 | | 14 | 7 | | 15 | 2 | | 14 |
| 5 | 5 | | 15 | 1 | | 16 | 3 | | 15 |
| 6 | 6 | | 16 | 2 | | 17 | 4 | | 16 |
| 7 | 7 | S. Pet. & Pa. | 17 | 3 | | 18 | 5 | | 17 |
| 8 | 1 | | 18 | 4 | | 19 | 6 | | 18 |
| 9 | 2 | | 19 | 5 | | 20 | 7 | | 19 |
| 10 | 3 | | 20 | 6 | | 21 | 1 | | 20 |
| 11 | 4 | | 21 | 7 | | 22 | 2 | | 21 |
| 12 | 5 | | 22 | 1 | | 23 | 3 | | 22 |
| 13 | 6 | | 23 | 2 | | 24 | 4 | | 23 |
| 14 | 7 | | 24 | 3 | | 25 | 5 | | 24 |
| 15 | 1 | | 25 | 4 | | 26 | 6 | | 25 |
| 16 | 2 | | 26 | 5 | | 27 | 7 | | 26 |
| 17 | 3 | | 27 | 6 | | 28 | 1 | | 27 |
| 18 | 4 | | 28 | 7 | | 29 | 2 | | 28 |
| 19 | 5 | | 29 | 1 | | 30 | 3 | | 29 |
| 20 | 6 | | 30 | 2 | | 31 | 4 | | 30 |
| 21 | 7 | Jul. | 1 | 3 | Aug. | 1 | 5 | | 31 |
| 22 | 1 | | 2 | 4 | | 2 | 6 | Sep. | 1 |
| 23 | 2 | | 3 | 5 | | 3 | 7 | | 2 |
| 24 | 3 | | 4 | 6 | | 4 | 1 | | 3 |
| 25 | 4 | | 5 | 7 | | 5 | 2 | | 4 |
| 26 | 5 | | 6 | 1 | | 6 | 3 | | 5 |
| 27 | 6 | | 7 | 2 | | 7 | 4 | | 6 |
| 28 | 7 | | 8 | 3 | | 8 | 5 | | 7 |
| 29 | 1 | | 9 | 4 | | 9 | 6 | St. Matthew | 8 |
| 30 | 2 | | 10 | 5 | | 10 | 7 | | 9 |
| 31 | 3 | | 11 | | | | | | 10 |

The Correct Account for the Year 1682.
with the answerable Month-days by
the Julian Calendar.

| M.D. | W | Month | Sep. | W. | Month | Oct. | W | Month | Nov. |
|-------|----|-------------|--------|----|-------------|-------|----|--------------|--------|
| Corr. | D. | Cor. 7. | Days. | D. | Cor. 8. | Days. | D. | Cor. 9. | Days |
| 1 | 2 | | 11 | 4 | | 11 | 7 | | 11 |
| 2 | 3 | S. Michael. | 12 | 5 | | 12 | 1 | | 12 |
| 3 | 4 | | 13 | 6 | | 13 | 2 | | 13 |
| 4 | 5 | | 14 | 7 | | 14 | 3 | | 14 |
| 5 | 6 | | 15 | 1 | | 15 | 4 | | 15 |
| 6 | 7 | | 16 | 2 | Sim. & Jud. | 16 | 5 | | 16 |
| 7 | 1 | | 17 | 3 | | 17 | 6 | | 17 |
| 8 | 2 | | 18 | 4 | | 18 | 7 | S. Andrew A. | 18 |
| 9 | 3 | | 19 | 5 | | 19 | 1 | | 19 |
| 10 | 4 | | 20 | 6 | All Saints. | 20 | 2 | | 20 |
| 11 | 5 | | 21 | 7 | | 21 | 3 | | 21 |
| 12 | 6 | | 22 | 1 | | 22 | 4 | | 22 |
| 13 | 7 | | 23 | 2 | | 23 | 5 | | 23 |
| 14 | 1 | | 24 | 3 | | 24 | 6 | | 24 |
| 15 | 2 | | 25 | 4 | | 25 | 7 | | 25 |
| 16 | 3 | | 26 | 5 | | 26 | 1 | | 26 |
| 17 | 4 | | 27 | 6 | | 27 | 2 | | 27 |
| 18 | 5 | | 28 | 7 | | 28 | 3 | | 28 |
| 19 | 6 | | 29 | 1 | | 29 | 4 | | 29 |
| 20 | 7 | | 30 | 2 | | 30 | 5 | | 30 |
| 21 | 1 | | Oct. 1 | 3 | | 31 | 6 | | Dec. 1 |
| 22 | 2 | | 2 | 4 | Nov. | 1 | 7 | | 2 |
| 23 | 3 | | 3 | 5 | | 2 | 1 | | 3 |
| 24 | 4 | | 4 | 6 | | 3 | 2 | | 4 |
| 25 | 5 | | 5 | 7 | | 4 | 3 | | 5 |
| 26 | 6 | S. Luke Ev. | 6 | 1 | | 5 | 4 | | 6 |
| 27 | 7 | | 7 | 2 | | 6 | 5 | | 7 |
| 28 | 1 | | 8 | 3 | | 7 | 6 | S. Thom. Ap. | 8 |
| 29 | 2 | | 9 | 4 | | 8 | 7 | | 9 |
| 30 | 3 | | 10 | 5 | | 9 | 1 | | 10 |
| 31 | 4 | | 11 | 6 | | 10 | 2 | | 11 |

The Correct Account for the Year 1682:
with the answerable Month-days by
the Julian Calendar.

| M.D. | W. | Month | Dec. | W. | Month | Jan. | W. | Month | Feb. |
|-------|----|-------------|-------|----|------------|-------|----|-------------|-------|
| Corr. | D. | Corr. | Days. | D. | Corr. | Days. | D. | Corr. | Days. |
| 1 | 2 | | 11 | 5 | | 11 | 7 | | 10 |
| 2 | 3 | Nat. Christ | 12 | 6 | | 12 | 1 | | 11 |
| 3 | 4 | S. Stephen | 13 | 7 | Con. Paul | 13 | 2 | S. Mathias | 12 |
| 4 | 5 | S. John Ev. | 14 | 1 | | 14 | 3 | | 13 |
| 5 | 6 | Innocents | 15 | 2 | | 15 | 4 | | 14 |
| 6 | 7 | | 16 | 3 | | 16 | 5 | | 15 |
| 7 | 1 | | 17 | 4 | | 17 | 6 | | 16 |
| 8 | 2 | | 18 | 5 | | 18 | 7 | | 17 |
| 9 | 3 | Circumcis. | 19 | 6 | | 19 | 1 | Shrove Sun. | 18 |
| 10 | 4 | | 20 | 7 | | 20 | 2 | | 19 |
| 11 | 5 | | 21 | 1 | Pur. Mary | 21 | 3 | | 20 |
| 12 | 6 | | 22 | 2 | | 22 | 4 | | 21 |
| 13 | 7 | | 23 | 3 | | 23 | 5 | | 22 |
| 14 | 1 | Epiphany | 24 | 4 | | 24 | 6 | | 23 |
| 15 | 2 | | 25 | 5 | | 25 | 7 | | 24 |
| 16 | 3 | | 26 | 6 | | 26 | 1 | | 25 |
| 17 | 4 | | 27 | 7 | | 27 | 2 | | 26 |
| 18 | 5 | | 28 | 1 | | 28 | 3 | | 27 |
| 19 | 6 | | 29 | 2 | | 29 | 4 | | 28 |
| 20 | 7 | | 30 | 3 | K. Cha. M. | 30 | 5 | March | 1 |
| 21 | 1 | | 31 | 4 | | 31 | 6 | | 2 |
| 22 | 2 | 1683. Jan. | 1 | 5 | Feb. | 1 | 7 | | 3 |
| 23 | 3 | | 2 | 6 | | 2 | 1 | | 4 |
| 24 | 4 | | 3 | 7 | | 3 | 2 | | 5 |
| 25 | 5 | | 4 | 1 | | 4 | 3 | | 6 |
| 26 | 6 | | 5 | 2 | | 5 | 4 | | 7 |
| 27 | 7 | | 6 | 3 | | 6 | 5 | | 8 |
| 28 | 1 | | 7 | 4 | | 7 | 6 | | 9 |
| 29 | 2 | | 8 | 5 | | 8 | 7 | | 10 |
| 30 | 3 | | 9 | 6 | | 9 | 1 | | 11 |
| 31 | 4 | | 10 | | | | | | |

*Some of the many Inconveniencies, which by
Authority may be for ever avoided, by
the Establishment of this Correction of
the Calendar.*

1. **T**He Inconcinnity of the divisions of the Months, *February* having 3 days less than the next foregoing and following Months: which proceeded from the old Superstition of the *Romans*, they having had ill success in that Month: But *July* and *August* both together, have each of them 31 days.

2. The intercalating of a day at a wrong place; which hath often proved a Stumbling-block to *Calculators*; of which *Astronomers* are constantly forced to give caution: whereas the said day should properly be made the last day of the year.

3. Our having several beginnings of the Year, which hath also occasioned many mistakes.

4. The unnecessary trouble of the *Cycle* for finding the unconstant *Dominical Letter*, with the erroneous *Prime* and *Epact* for the Moon: Whereas the *Week-days* are best found and distinguished by *Arithmetical Figures*, and the *Mean New* and *Full Moons* much more easily, truly and perpetually found by our Numbers.

5. And lastly, The continual running out of our Years and Months from the true Course of the Heavens, as also of our Holy Feasts from their proper seats and the first intentions of the Church.

And now, if any man be not satisfied in any particular herein proposed, I shall be very ready to give him due satisfaction: for I am a Teacher of the *Mathematical Sciences*, as *Arithmetick*, *Geometry*, *Navigation*, *Astronomy*, &c. and also a Lover of the Verity of *Astrology*; but would not impose more upon any than may be rationally proved. So here followeth,

*Demonstration of the True and Natural Causes of the Flux
and Re-flux of the Seas.*

It will be needless here to repeat the several suppositions of very Learned and Worthy Persons formerly published upon this subject: Only the Truth of the *Hypothesis*, in which the Ingenious *Cartesius* hath happily made some entrance, we thus prosecute.

The Sun, without whose heat the Waters could have no motion, but remain wholly congealed in Ice, as a stone; and the Moon, the Earths Planet, of like substance as the Earth, and very near unto it, are by their Magnetick Attractions, and the Expulsions of their Vortices, together with the Diurnal Revolutions of the Earth upon her Axis, the true Causes of the said Flux and Reflux of the Seas.

For Proof and Demonstration whereof: In this *Diagram*, let S. denote the fixt place of the Sun; E the Earth, F, B, E, D, G, a part of the Orb of her Annual Motion, and the Moon together with her, about the Sun; A, B, C, D; the Monthly Motion of the Moon about the Earth.



It is certainly known, by the consent of most exact Observations of the true Motion of the Moon, and her visible Diameter at all times, that her Monthly Motion is compressed on both sides towards the Annual Orb, as well above as below it, as the Diagram sheweth: So that at the New or Full Moon, at A or C, she is constantly nearer the Earth than generally at other times; and this is the cause of the third Inequality of the Moon; Of which (God willing) more shall be said hereafter, in its proper place.

But the Causes of the said Compression, are the Magnetick Attraction of the Sun, with the equivalent Expulsion, or bearing out of his *Vortex*; by which the adjacent Coelestial matter, above descending, but below ascending towards the Annual Orb, the Earth and Moon are perpetually kept unto it.

In like manner, and from the self-same Causes, it follows, that the fluid Ocean is compressed on that side of our Terrestrial Globe which is next the Sun, and also on the farther side from him.

But the Moon, by reason of her Proximity to the Earth, and the similitude of her substance, hath, from the afore-recited Causes, the greater power of compressing of the Seas, as well on the side of the Earth which is farthest from her, as the nearest to her.

Now, while the Main Ocean is thus compressed, it must necessarily flow at some distance into the lesser Channels: and generally, about 6 hours after, when, by the Diurnal Motion of the Earth, the Seas are farthest removed from their former pressures, it's then Low-water, where before it was High-floud.

Consequently also, the New and Full Moons produce the greater Flux and Reflux of the Seas, and the Quarters the lesser.

For, at the New and Full Moons, the same parts of the Ocean towards A and C are compressed by both Luminaries at once.

But at the Quarters, where the pressure of the Moon, which is the greater, causeth High-water, there that of the Sun, which is the lesser pressure, being on the contrary for Low-water, diminisheth the former.

And whereas the third or fourth Tide after the Change or Full are for the most part the greatest; the reason is, that the Effect followeth the Cause.

The *Equinoctial* New or Full Moons are commonly attended with the greatest Tides, because the pressures are then directly in the said Great Circle, where, by reason of the Suns heat, the Seas are the more fluid.

The greatest Tides have been also observed at the Perigee New or Full Moon, which agrees well to that which was aforesaid, of her nearness to the Earth.

The Cause of those Trade-winds, with that constant Current observed in most parts of the Ocean, between the Tropicks, from East to West; which *Galileus* assigneth to the bearing of the Diurnal Motion of the Earth against the Annual, may be also very rationally deduced from the heat of the Sun expelling and driving the Vapours before him: but to insist upon these things, or the In-draughts and Windings of Channells, with their In-equalities, by which, and the opposition of Rivers' obstructions of the Land, or Subterranean Streams, the Floods are in some places made higher or lower than ordinary; or to give a particular account of the Winds, and various other Accidents attending, intending and remitting the motions of the Seas, may not be reasonably expected in this place.

But here, for some reasons which I forbear at present, I desire all Courteous and *Astronomical* Readers to take notice, that in my *Astronomia Carolina*, page 21. there is a True, though brief, account of the Cause of the Precession of the *Equinox*, and in the end of my *Examen Examinatum*, published Anno 1667. are two Tables, the one of the Angle of the true Motion of ☾ from ☉, and the other of the time of Reduction, &c. in Lunar Eclipses.

I am sorry to see Ignorance and Fraud, so commonly preferred in these times before Art and Honesty: Nevertheless, though I stuff not my leaves with such Whimsies as some have done theirs, I doubt not but all that understand better things, will excuse me for it: And certainly, if we do but endeavour as we ought to draw nearer to God,

He that Rules Heaven, and stays the Oceans Rage,
Will Rectifie the Errors of this Age.

**A Table of the exact Time of High-water at
London-Bridge, for every day of the first six
Months of this Year 1682.**

According to the diligent Observations and *Theory* of
Mr. Henry Phillipps deceased.

| Day | Janua. | | Februa. | | March. | | April. | | May. | | June. | |
|-----|--------|-------|---------|-------|--------|-------|--------|-------|------|-------|-------|------|
| | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. |
| 1 | 4. | A. 37 | 5. | A. 11 | 4. | A. 25 | 5. | A. 22 | 5. | A. 53 | 7. | A. 6 |
| 2 | 5. | 6 | 5. | 40 | 4. | 57 | 5. | 57 | 6. | 36 | 7. | 58 |
| 3 | 5. | 33 | 6. | 12 | 5. | 28 | 6. | 40 | 7. | 26 | 8. | 53 |
| 4 | 6. | 2 | 6. | 50 | 6. | 0 | 7. | 33 | 8. | 24 | 9. | 54 |
| 5 | 6. | 35 | 7. | 40 | 6. | 41 | 8. | 36 | 9. | 27 | 10. | 58 |
| 6 | 7. | 16 | 8. | 43 | 7. | 31 | 9. | 47 | 10. | 33 | 12. | 5 |
| 7 | 8. | 7 | 9. | 59 | 8. | 37 | 11. | 0 | 11. | 42 | 0. | M. 5 |
| 8 | 9. | 9 | 11. | 22 | 9. | 52 | 12. | 12 | 12. | 47 | 1. | 9 |
| 9 | 10. | 23 | 12. | 44 | 11. | 12 | 0. | M. 12 | 0. | M. 47 | 2. | 8 |
| 10 | 11. | 44 | 0. | M. 44 | 12. | 29 | 1. | 19 | 1. | 49 | 3. | 0 |
| 11 | 13. | 7 | 2. | 0 | 0. | M. 29 | 2. | 19 | 2. | 43 | 3. | 45 |
| 12 | 1. | M. 7 | 3. | 2 | 1. | 41 | 3. | 12 | 3. | 31 | 4. | 22 |
| 13 | 2. | 22 | 3. | 52 | 2. | 41 | 3. | 55 | 4. | 11 | 4. | 53 |
| 14 | 3. | 24 | 4. | 30 | 3. | 32 | 4. | 31 | 4. | 45 | 5. | 21 |
| 15 | 4. | 12 | 5. | 3 | 4. | 12 | 5. | 2 | 5. | 14 | 5. | 49 |
| 16 | 4. | 50 | 5. | 32 | 4. | 46 | 5. | 32 | 5. | 44 | 6. | 21 |
| 17 | 5. | 22 | 6. | 3 | 5. | 17 | 6. | 4 | 6. | 15 | 6. | 55 |
| 18 | 5. | 53 | 6. | 40 | 5. | 47 | 6. | 40 | 6. | 52 | 7. | 35 |
| 19 | 6. | 27 | 7. | 22 | 6. | 21 | 7. | 22 | 7. | 33 | 8. | 24 |
| 20 | 7. | 8 | 8. | 12 | 7. | 0 | 8. | 12 | 8. | 21 | 9. | 22 |
| 21 | 7. | 54 | 9. | 9 | 7. | 48 | 9. | 7 | 9. | 16 | 10. | 30 |
| 22 | 8. | 47 | 10. | 13 | 8. | 42 | 10. | 6 | 10. | 17 | 11. | 46 |
| 23 | 9. | 47 | 11. | 18 | 9. | 42 | 11. | 8 | 11. | 21 | 1. | A. 3 |
| 24 | 10. | 51 | 0. | A. 23 | 10. | 44 | 0. | A. 10 | 0. | A. 29 | 2. | 17 |
| 25 | 11. | 57 | 1. | 23 | 11. | 48 | 1. | 13 | 1. | 39 | 3. | 22 |
| 26 | 1. | A. 0 | 2. | 19 | 0. | A. 51 | 2. | 15 | 2. | 45 | 4. | 13 |
| 27 | 2. | 0 | 3. | 8 | 1. | 49 | 3. | 11 | 3. | 42 | 4. | 53 |
| 28 | 2. | 52 | 3. | 50 | 2. | 42 | 3. | 58 | 4. | 28 | 5. | 28 |
| 29 | 3. | 34 | | | 3. | 31 | 2. | 40 | 5. | 7 | 6. | 2 |
| 30 | 4. | 11 | | | 4. | 12 | 3. | 16 | 5. | 14 | 6. | 40 |
| 31 | 4. | 43 | | | 4. | 48 | | | 6. | 22 | | |

Table of the exact time of High water at
London-Bridge, for every day of the last six
 Months of this Year 1682.

According to the diligent Observations and Theory of
Mr. Henry Phillipps deceased.

| Day | July. | | August. | | Septem. | | Octob. | | Novem. | | Decem. | |
|-----|-------|----|---------|----|---------|----|--------|----|--------|----|--------|----|
| | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. | H. | M. |
| 1 | 7.A. | 24 | 8.A. | 38 | 10.A. | 19 | 10.A. | 51 | 12.A. | 4 | 12.A. | 5 |
| 2 | 8. | 14 | 9. | 39 | 11. | 23 | 11. | 52 | 0.M. | 4 | 0.M. | 5 |
| 3 | 9. | 11 | 10. | 44 | 12. | 28 | 12. | 52 | 1. | 4 | 1. | 12 |
| 4 | 10. | 14 | 11. | 52 | 0.M. | 28 | 0.M. | 52 | 2. | 4 | 2. | 18 |
| 5 | 11. | 21 | 12. | 57 | 1. | 28 | 1. | 49 | 2. | 58 | 3. | 17 |
| 6 | 12. | 27 | 0.M. | 57 | 2. | 20 | 2. | 40 | 3. | 46 | 4. | 8 |
| 7 | 0.M. | 27 | 1. | 56 | 3. | 7 | 3. | 25 | 4. | 28 | 4. | 49 |
| 8 | 1. | 29 | 2. | 48 | 3. | 48 | 4. | 5 | 5. | 5 | 5. | 25 |
| 9 | 2. | 26 | 3. | 31 | 4. | 23 | 4. | 41 | 5. | 41 | 6. | 1 |
| 10 | 3. | 15 | 4. | 7 | 4. | 53 | 5. | 14 | 6. | 20 | 6. | 42 |
| 11 | 3. | 56 | 4. | 38 | 5. | 22 | 5. | 48 | 7. | 6 | 7. | 27 |
| 12 | 4. | 30 | 5. | 6 | 5. | 54 | 6. | 29 | 8. | 2 | 8. | 20 |
| 13 | 4. | 58 | 5. | 33 | 6. | 32 | 7. | 18 | 9. | 3 | 9. | 20 |
| 14 | 5. | 25 | 6. | 4 | 7. | 20 | 8. | 18 | 10. | 7 | 10. | 24 |
| 15 | 5. | 52 | 6. | 40 | 8. | 22 | 9. | 27 | 11. | 16 | 11. | 30 |
| 16 | 6. | 23 | 7. | 26 | 9. | 35 | 10. | 40 | 0.A. | 24 | 0.A. | 37 |
| 17 | 7. | 0 | 8. | 25 | 10. | 54 | 11. | 54 | 1. | 28 | 1. | 42 |
| 18 | 7. | 47 | 9. | 38 | 0.A. | 13 | 1.A. | 4 | 2. | 28 | 2. | 39 |
| 19 | 8. | 45 | 11. | 0 | 1. | 28 | 2. | 8 | 3. | 20 | 3. | 29 |
| 20 | 9. | 54 | 0.A. | 24 | 2. | 32 | 3. | 3 | 4. | 3 | 4. | 9 |
| 21 | 11. | 14 | 1. | 44 | 3. | 25 | 3. | 50 | 4. | 39 | 4. | 43 |
| 22 | 0.A. | 37 | 2. | 50 | 4. | 9 | 4. | 28 | 5. | 11 | 5. | 11 |
| 23 | 1. | 56 | 3. | 42 | 4. | 45 | 5. | 1 | 5. | 41 | 5. | 38 |
| 24 | 3. | 4 | 4. | 25 | 5. | 16 | 5. | 32 | 6. | 11 | 6. | 5 |
| 25 | 3. | 57 | 4. | 59 | 5. | 48 | 6. | 5 | 6. | 45 | 6. | 37 |
| 26 | 4. | 38 | 5. | 29 | 6. | 23 | 6. | 42 | 7. | 24 | 7. | 14 |
| 27 | 5. | 12 | 6. | 2 | 7. | 5 | 7. | 24 | 8. | 10 | 7. | 58 |
| 28 | 5. | 44 | 6. | 39 | 7. | 53 | 8. | 13 | 9. | 0 | 8. | 51 |
| 29 | 6. | 19 | 7. | 23 | 8. | 48 | 9. | 6 | 9. | 55 | 9. | 52 |
| 30 | 6. | 58 | 8. | 15 | 9. | 49 | 10. | 3 | 10. | 58 | 11. | 2 |
| 31 | 7. | 44 | 9. | 14 | | | 11. | 2 | | | 12. | 20 |

A Table of Houses for the Parallel of London, and parts adjacent.

| R. A. | X | XI | XII | I | II | III | R. A. | X | XI | XII | I | II | III |
|-------|----|----|-----|----|----|-----|--------|----|----|-----|----|----|-----|
| H. M. | | | | | | | H. M. | | | | | | |
| 0. 0 | 0 | 13 | 28 | 27 | 16 | 4 | 6. 0 | 0 | 2 | 8 | 0 | 22 | 24 |
| 0. 11 | 3 | 16 | 5 | 29 | 18 | 7 | 6. 13 | 3 | 12 | 10 | 2 | 25 | 23 |
| 0. 22 | 6 | 20 | 3 | 5 | 20 | 9 | 6. 26 | 6 | 15 | 13 | 5 | 27 | 26 |
| 0. 33 | 9 | 23 | 6 | 3 | 22 | 11 | 6. 39 | 9 | 17 | 15 | 7 | 29 | 29 |
| 0. 44 | 12 | 26 | 8 | 5 | 24 | 14 | 6. 52 | 12 | 20 | 17 | 9 | 31 | 2 |
| 0. 55 | 15 | 29 | 11 | 7 | 26 | 16 | 7. 5 | 15 | 23 | 20 | 11 | 4 | 4 |
| 1. 6 | 18 | 11 | 13 | 9 | 28 | 19 | 7. 18 | 18 | 26 | 22 | 14 | 6 | 7 |
| 1. 18 | 21 | 6 | 15 | 11 | 30 | 21 | 7. 31 | 21 | 28 | 25 | 16 | 9 | 10 |
| 1. 29 | 24 | 9 | 17 | 13 | 2 | 23 | 7. 44 | 24 | 31 | 27 | 18 | 11 | 12 |
| 1. 40 | 27 | 12 | 20 | 15 | 4 | 26 | 7. 56 | 27 | 4 | 29 | 20 | 13 | 15 |
| 1. 52 | 30 | 14 | 22 | 17 | 6 | 28 | 8. 9 | 30 | 6 | 31 | 22 | 16 | 18 |
| 2. 3 | 33 | 17 | 24 | 19 | 8 | 30 | 8. 21 | 33 | 9 | 4 | 25 | 18 | 21 |
| 2. 15 | 6 | 20 | 26 | 21 | 11 | 3 | 8. 34 | 6 | 12 | 6 | 27 | 20 | 23 |
| 2. 26 | 9 | 23 | 29 | 23 | 13 | 6 | 8. 46 | 9 | 14 | 8 | 29 | 23 | 26 |
| 2. 38 | 12 | 26 | 31 | 25 | 15 | 8 | 8. 58 | 12 | 17 | 11 | 31 | 25 | 29 |
| 2. 50 | 15 | 29 | 3 | 27 | 17 | 11 | 9. 10 | 15 | 19 | 13 | 3 | 27 | 32 |
| 3. 2 | 18 | 32 | 5 | 29 | 19 | 13 | 9. 22 | 18 | 21 | 15 | 5 | 29 | 34 |
| 3. 14 | 21 | 4 | 7 | 31 | 22 | 16 | 9. 34 | 21 | 24 | 17 | 7 | 31 | 37 |
| 3. 26 | 24 | 7 | 10 | 3 | 24 | 18 | 9. 45 | 24 | 27 | 19 | 9 | 34 | 40 |
| 3. 39 | 27 | 9 | 12 | 5 | 26 | 21 | 9. 57 | 27 | 29 | 22 | 11 | 36 | 43 |
| 3. 51 | 30 | 12 | 14 | 7 | 28 | 24 | 10. 8 | 30 | 31 | 24 | 13 | 38 | 46 |
| 4. 4 | 33 | 15 | 17 | 10 | 31 | 27 | 10. 20 | 33 | 4 | 26 | 15 | 40 | 49 |
| 4. 16 | 6 | 18 | 19 | 12 | 3 | 29 | 10. 31 | 6 | 7 | 28 | 17 | 42 | 52 |
| 4. 29 | 9 | 20 | 21 | 14 | 5 | 31 | 10. 42 | 9 | 9 | 30 | 19 | 44 | 55 |
| 4. 42 | 12 | 23 | 24 | 16 | 8 | 4 | 10. 54 | 12 | 11 | 31 | 21 | 46 | 58 |
| 4. 55 | 15 | 26 | 26 | 19 | 10 | 7 | 11. 5 | 15 | 14 | 4 | 23 | 48 | 61 |
| 5. 8 | 18 | 28 | 28 | 21 | 13 | 10 | 11. 16 | 18 | 16 | 6 | 25 | 50 | 64 |
| 5. 21 | 21 | 31 | 31 | 23 | 15 | 12 | 11. 27 | 21 | 19 | 8 | 27 | 52 | 67 |
| 5. 34 | 24 | 4 | 3 | 25 | 17 | 15 | 11. 38 | 24 | 21 | 10 | 29 | 54 | 70 |
| 5. 47 | 27 | 7 | 5 | 28 | 20 | 18 | 11. 49 | 27 | 23 | 12 | 31 | 56 | 73 |
| 6. 0 | 30 | 9 | 8 | 30 | 22 | 21 | 12. 0 | 30 | 26 | 14 | 3 | 58 | 76 |

A Table of Houses for the Parallel of London, and parts adjacent.

A

| R. A. | X | XI | XII | Afc. | II | III | R. A. | X | XI | XII | Afc. | II | III |
|--------|----|----|-----|------|----|-----|--------|----|----|-----|------|----|-----|
| H.M. | | | | | | | H.M. | | | | | | |
| 12. 0 | 0 | 26 | 14 | 3 | 2 | 17 | 18. 0 | 0 | 13 | 6 | 0 | 24 | 17 |
| 12. 11 | 3 | 28 | 16 | 5 | 4 | 21 | 18. 13 | 3 | 17 | 11 | 8 | 29 | 20 |
| 12. 22 | 6 | 30 | 18 | 7 | 7 | 25 | 18. 26 | 6 | 20 | 16 | 16 | 32 | 23 |
| 12. 33 | 9 | 3 | 20 | 9 | 10 | 28 | 18. 39 | 9 | 24 | 21 | 23 | 7 | 26 |
| 12. 44 | 12 | 5 | 22 | 12 | 12 | 31 | 18. 52 | 12 | 27 | 27 | 0 | 11 | 29 |
| 12. 55 | 15 | 7 | 24 | 14 | 15 | 6 | 19. 5 | 15 | 30 | 30 | 7 | 15 | 32 |
| 13. 6 | 18 | 9 | 26 | 16 | 19 | 10 | 19. 18 | 18 | 4 | 9 | 13 | 18 | 3 |
| 13. 18 | 21 | 12 | 28 | 18 | 22 | 14 | 19. 31 | 21 | 8 | 15 | 18 | 21 | 8 |
| 13. 29 | 24 | 14 | 30 | 20 | 25 | 18 | 19. 44 | 24 | 12 | 22 | 24 | 25 | 11 |
| 13. 40 | 27 | 17 | 2 | 23 | 29 | 23 | 19. 56 | 27 | 16 | 28 | 28 | 28 | 13 |
| 13. 52 | 30 | 19 | 5 | 25 | 32 | 27 | 20. 9 | 30 | 20 | 30 | 30 | 30 | 16 |
| 14. 3 | 3 | 21 | 7 | 28 | 7 | 30 | 20. 21 | 3 | 24 | 11 | 7 | 3 | 19 |
| 14. 15 | 6 | 24 | 9 | 30 | 11 | 5 | 20. 34 | 6 | 29 | 17 | 11 | 6 | 21 |
| 14. 26 | 9 | 26 | 12 | 3 | 16 | 10 | 20. 46 | 9 | 32 | 23 | 14 | 9 | 24 |
| 14. 38 | 12 | 29 | 14 | 6 | 21 | 14 | 20. 58 | 12 | 7 | 29 | 18 | 11 | 26 |
| 14. 50 | 15 | 31 | 16 | 9 | 26 | 19 | 21. 10 | 15 | 11 | 30 | 21 | 14 | 29 |
| 15. 2 | 18 | 4 | 19 | 12 | 31 | 23 | 21. 22 | 18 | 16 | 9 | 24 | 16 | 32 |
| 15. 14 | 21 | 6 | 21 | 16 | 7 | 27 | 21. 34 | 21 | 20 | 14 | 27 | 18 | 4 |
| 15. 26 | 24 | 9 | 24 | 19 | 13 | 30 | 21. 45 | 24 | 24 | 19 | 30 | 21 | 6 |
| 15. 39 | 27 | 11 | 27 | 23 | 19 | 6 | 21. 57 | 27 | 29 | 23 | 32 | 23 | 9 |
| 15. 51 | 30 | 14 | 29 | 27 | 25 | 10 | 22. 8 | 30 | 32 | 27 | 3 | 25 | 11 |
| 16. 4 | 3 | 17 | 30 | 30 | 30 | 14 | 22. 20 | 3 | 7 | 30 | 17 | 27 | 13 |
| 16. 16 | 6 | 19 | 5 | 6 | 8 | 18 | 22. 31 | 6 | 12 | 5 | 10 | 29 | 16 |
| 16. 29 | 9 | 22 | 9 | 12 | 15 | 22 | 22. 42 | 9 | 16 | 8 | 12 | 32 | 18 |
| 16. 42 | 12 | 25 | 12 | 17 | 21 | 25 | 22. 54 | 12 | 20 | 11 | 14 | 4 | 21 |
| 16. 55 | 15 | 28 | 15 | 23 | 27 | 29 | 23. 5 | 15 | 24 | 15 | 16 | 6 | 23 |
| 17. 8 | 18 | 30 | 19 | 30 | 30 | 32 | 23. 16 | 18 | 28 | 18 | 18 | 8 | 25 |
| 17. 21 | 21 | 4 | 23 | 31 | 9 | 6 | 23. 27 | 21 | 30 | 20 | 21 | 10 | 27 |
| 17. 34 | 24 | 7 | 27 | 32 | 14 | 10 | 23. 38 | 24 | 5 | 23 | 23 | 12 | 30 |
| 17. 47 | 27 | 10 | 30 | 33 | 19 | 13 | 23. 49 | 27 | 9 | 26 | 25 | 14 | 32 |
| 18. 0 | 30 | 13 | 3 | 34 | 24 | 17 | 24. 0 | 30 | 13 | 28 | 27 | 16 | 4 |

An Ingenious and worthy Friend of mine, having been informed of my design of composing my larger *Astronomical Tables*, towards which I have made some Progress; and being pleased, for my furtherance therein, to write me such a Bill as hereunder followeth, and to get me several Subscriptions to it: I think it here fitting to publish the same, with some of the principal Subscribers Names; not doubting (though the price of the Book, when finished, will amount only to some 20 s.) but most of the Merchants in all Companies, and other worthy Persons whom it may concern, will take some notice of it, and especially of that Discovery so greatly desirable.

The BILL

Mr Street, in order to the Compleating of Astronomy, Geography and Navigation, designing to publish more Exact Tables, and more Ease for calculating of the places of all the Planets than ever yet were published, and not more difficult than the taking of the Oblique Ascension out of Argol's Primum Mobile. For the encouraging of so good a Work, we whose Names are subscribed, do promise to give him half at present, and the other half at the delivery of the Book, it conducing directly to his Discovery of the True Longitude.

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From my House in Sweetland Court, on little T. over-hill, Aug. 24. 1681.

Lan: Dec. F. I. N. I. S.

2